

# DEEPER LEARNING

## For Every Student Every Day



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# EXECUTIVE SUMMARY

A [survey of chief executives](#) conducted by the [The Business Council](#) and [The Conference Board](#) makes clear the priority on work skills.<sup>1</sup> Work ethic is the clear winner. The next four priorities describe the demands of the new workplace—teamwork, decision-making, critical thinking and computer literacy. The “3 Rs” come next on the priority list.

As Tony Wagner notes in his most recent book, *Creating Innovators*, there is often a mismatch between what is taught and tested and what is required by the new economy. Wagner suggests the skills required for work, learning, and citizenship are converging. “Schools aren’t failing and don’t need reform.” Instead, says Wagner, “we need to reinvent, re-imagine our schools.”<sup>2</sup>

About twenty years ago, hundreds of people began that re-imagining—they launched new schools and networks. Ten of those school developers, profiled in this paper, continue to support the progression of schools where students graduate with the skills and dispositions that college admission boards and CEOs seek.

While the need for career and citizenship preparation grows as the economy becomes more demanding and our country becomes more diverse, this decade represents an opportunity to significantly improve the preparation of American students. The implementation of common college- and career-ready standards, the shift to next-generation assessments and the prevalence of affordable personal digital devices create the conditions for a national shift to personalized learning. The development and adoption of new tools and school models that blend the best of face-to-face learning and personalized online learning represents a historic opportunity for improvement and reconsideration of priorities.

In many cases, a decade of standards-based reform lifted expectations and improved options, but had the unintended consequence of narrowing the curriculum. Compared to current states standards, the [Common Core State Standards](#) (CCSS) adopted by most states incorporate critical thinking, effective communication, and working collaboratively. The new common standards don’t imply or require complete standardization. Rather, they create the opportunity to develop engaging and personalized learning experiences for every student, every day.

Implementing new standards and digital learning models represents a significant challenge, but it also represents an opportunity to create schools that work better for students and teachers—and society as a whole. More broadly, there is an opportunity to create systems of schools that empower social mobility and prepare young people for civic contribution. Taking full advantage of the historic shifts underway requires a reconsideration of learning goals, pedagogical models and the basic structure of our learning institutions.

It is no longer a question of academic success or work preparation or civic contribution, but rather a combination of all of these. We need to create engaging opportunities for all young people to develop the knowledge, skills and dispositions necessary to thrive in the information economy and in diverse communities.

The William and Flora Hewlett Foundation explains, “Deeper Learning is an umbrella term for the skills and knowledge that students must possess to succeed in 21<sup>st</sup> century jobs and civic life. At its heart is a set of competencies students must master in order to develop a keen understanding of academic content and apply their knowledge to problems in the classroom and on the job.”<sup>3</sup>



## LEARN MORE.

To find out more about Deeper Learning, visit [deeperlearning4all.org](http://deeperlearning4all.org).

## Six Deeper Learning Competencies:

Master Core  
Academic  
Content

Think  
Critically and  
Solve Complex  
Problems

Work  
Collaboratively

Communicate  
Effectively

Learn How to  
Learn

Develop  
Academic  
Mindsets

In an effort to better define Deeper Learning, the Hewlett Foundation has identified six Deeper Learning competencies that are essential to prepare students to achieve at high levels and succeed in college, career and civic life:

1. **Master core academic content.** Students develop and draw from a baseline understanding of knowledge in an academic discipline and are able to transfer knowledge to other situations.
2. **Think critically and solve complex problems.** Students apply tools and techniques gleaned from core subjects to formulate and solve problems. These tools include data analysis, statistical reasoning, and scientific inquiry as well as creative problem solving, nonlinear thinking and persistence.
3. **Work collaboratively.** Students cooperate to identify and create solutions to academic, social, vocational and personal challenges.
4. **Communicate effectively.** Students clearly organize their data, findings and thoughts in both written and oral communication.
5. **Learn how to learn.** Students monitor and direct their own learning.
6. **Develop academic mindsets.** Students develop positive attitudes and beliefs about themselves as learners that increase their academic perseverance and prompt them to engage in productive academic behaviors. Students are committed to seeing work through to completion, meeting their goals and doing quality work, and thus search for solutions to overcome obstacles.

### PROFILED SCHOOLS.

In the summer of 2013, American schools had the opportunity to nominate themselves or others for consideration as a Deeper Learning School. Responses from dozens of schools exhibited strong alignment with the Hewlett Foundation's Deeper Learning competencies. School leaders filled out detailed questionnaires and the Getting Smart team conducted interviews to gather additional information such as classroom examples and student success stories.<sup>4</sup>

Twenty schools were selected with the goal of presenting a diverse national distribution of new and improved schools, rural and urban schools, district and charter schools and schools that debunked common myths about Deeper Learning. While the schools are diverse in their composition, they share a common purpose—to give all students the opportunity to learn in a Deeper Learning environment.

These schools systematically engage young people as scientists, writers, producers, inventors, collaborators and problem solvers in ways that provoke inspired learning and valuable preparation. Most are high schools—where Deeper Learning has most often been lost to courses and credits, uninspiring experiences, and multiple-choice tests.

### PURPOSE & OUTLINE.

The purpose of this paper is to highlight how each of these schools is working to promote Deeper Learning. Examples illustrate how these schools are leading the way.<sup>5</sup> Personalized, blended and Project-Based Learning are key strategies for promoting Deeper Learning.

The second half of this paper takes on common myths about these goals—namely that Deeper Learning costs more, requires superstar teachers and is only for high performing schools and communities with a history of high rates of college attendance.

In addition to the paper, Appendix A offers two-page profiles of each school we selected for inclusion in the Deeper Learning school project that act as complementary resources to the report's findings. Appendix B offers the Hewlett Foundation's profiles of its Deeper Learning Networks. Appendix C contains a document produced by the Hewlett Foundation that describes in detail the Deeper Learning competencies and includes student demonstrations to explain each.

We hope that this project is seen as another step in bringing Deeper Learning to every student. We hope that reading about these schools and their success will challenge misconceptions and inspire action. We hope that we can find ways to continue to learn from one another. We hope that you will share your success stories with us.

We also hope that this paper offers something for policymakers who are looking to create space for Deeper Learning to thrive. It is important for schools, districts and networks to acknowledge the role of local, state and federal policies in the implementation of Deeper Learning. It is equally important for policymakers and influencers to acknowledge the impact of policy decisions on schools.

## **CONCLUSIONS.**

Bringing Deeper Learning to every student will necessitate shifts in policies related to student assessment, staffing, school funding, teacher preparation and professional development and more. Often, it is the elimination of existing policy barriers that can create the necessary policy space for educational innovation to thrive. For example, Deeper Learning can more easily be catalyzed with the elimination of policy barriers around notions of age cohorts fulfilling seat time requirements while accumulating required credits.

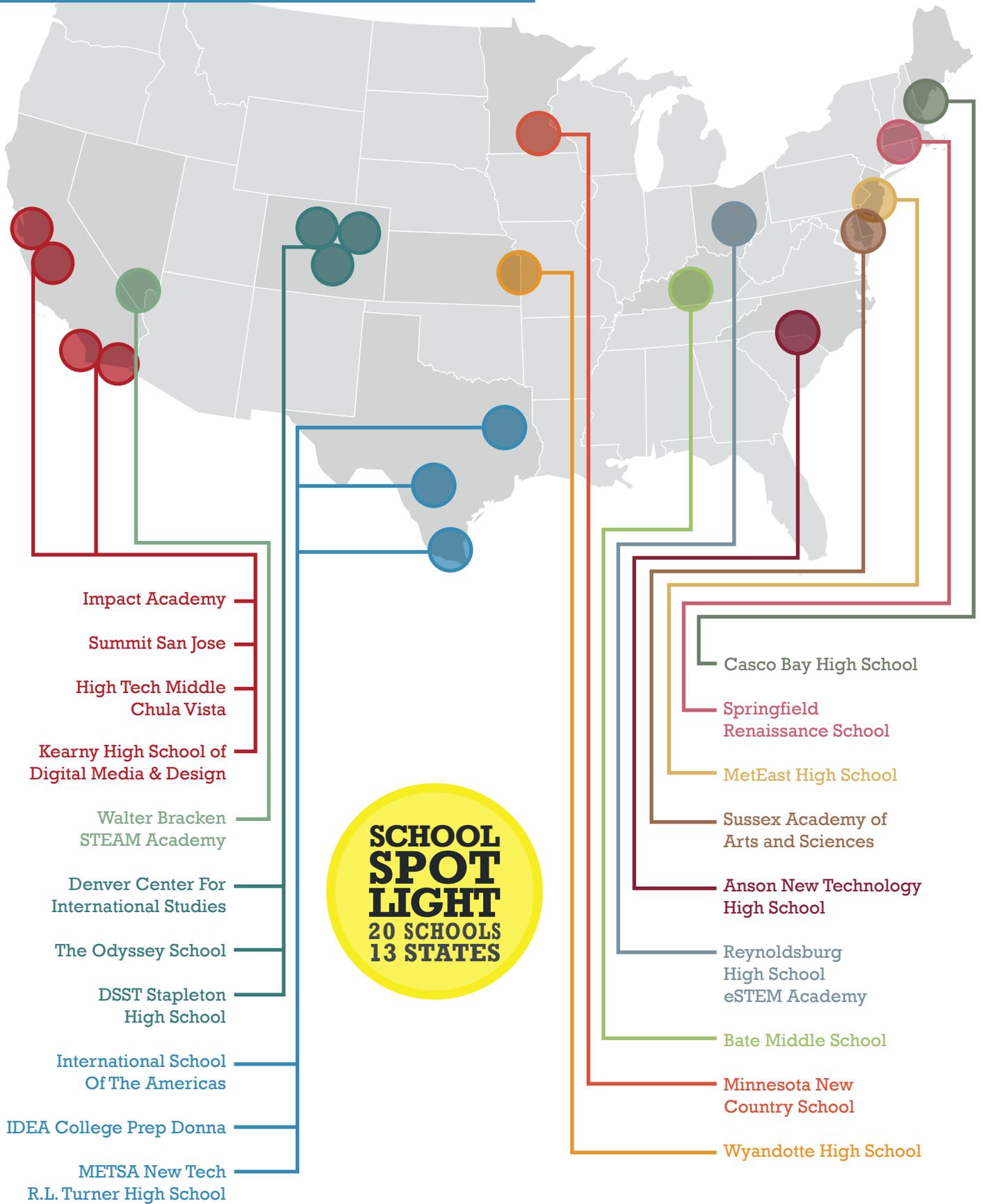
"Towards A New End: New Pedagogies for Deep Learning" co-authors Michael Fullan and Maria Langworthy identify four fundamental barriers that stand between the theory and practice of Deeper Learning, including inadequate development of the following:<sup>6</sup>

1. Policies and system-level strategies that enable diffusion;
2. Accepted ways of measuring deep learning;
3. Adoption of new pedagogical models that foster deep learning; and
4. Knowledge of how students adopt deep learning practices.

In order to keep us moving toward the goal of Deeper Learning for all, we need to fill these knowledge gaps. We can do so by collecting and disseminating examples of promising practices, creating opportunities to learn from one another, challenging misconceptions about Deeper Learning and then creating the conditions for success in our own communities.

The transition to CCSS and personalized digital learning create a historic opportunity to consider ways to improve educational equity and graduate students who are better equipped for college and career. We found twenty schools that provide a good starting point for a system-wide evolution to Deeper Learning.

## Map of Deeper Learning Profile Schools



# DEEPER LEARNING FOR EVERY STUDENT EVERY DAY

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## DEFINITIONS

In an effort to build a common vocabulary the authors offer these definitions for terms used throughout the paper and accompanying profiles.

**21<sup>st</sup> Century Skills:** Refers to a broad set of knowledge, skills, work habits and character traits that are believed—by educators, education innovators, college professors, employers and others—to be critically important to success in today’s world, particularly in collegiate programs and modern careers. Generally speaking, 21<sup>st</sup> century skills can be applied in all academic subject areas, and in all educational, career, and civic settings throughout a student’s life (Adapted from: <http://edglossary.org/21st-century-skills/>).

**Authentic Learning (assignments, projects & tasks):** Refers to a wide variety of educational and instructional techniques focused on connecting what students are taught in school to real-world issues, problems, and applications (Source: <http://edglossary.org/authentic-learning/>).

**Blended Learning:** A formal education program in which a student learns at least in part through the online delivery of content and instruction, with some element of student control over time, place, path and/or pace at a supervised brick-and-mortar location away from home. Compared to high-access environments, which simply provide devices for students, blended learning includes an intentional shift to online instructional delivery for a portion of the day in order to boost student, teacher and school productivity (Source: [Clayton Christensen Institute for Disruptive Innovation](http://www.claytonchristenseninstitute.org/), formerly Innosight Institute).

**Block Scheduling:** Class scheduling in which students have fewer classes per day, which is common in middle and high schools (e.g., four versus the traditional seven). Classes are usually longer periods of time than normal (e.g., 90 minutes versus 50 minutes).

**Capstone Project:** Also called a capstone experience, senior exhibition, or senior project, among other terms, a capstone project is a multifaceted assignment that serves as a culminating academic and intellectual experience for students, typically during their final year of high school or middle school, or at the end of an academic program or learning-pathway experience (Source: <http://edglossary.org/capstone-project/>).

**Collaborative Learning Technology:** Technology that allows rich collaboration through group interactions and projects.

**Common Core State Standards (CCSS):** A consistent, clear understanding of what students are expected to learn, so teachers and parents know what they need to do to help them succeed. The standards are designed to be robust and relevant to the real world, reflecting the knowledge and skills that our young people need for success in college and careers (Source: <http://www.corestandards.org/>).

**Competency-Based Learning:** A system of education, often referred to as proficiency or mastery-based, in which students advance based on demonstration of mastery. Competencies include explicit, measurable, transferable learning objectives that empower students. Assessment is meaningful and serves as a positive learning experience for students. Students receive timely, differentiated support based on their individual learning needs. Learning outcomes include the application and creation of knowledge, along with the development of important skills and dispositions (Source: [CompetencyWorks](http://www.competencyworks.org/)).

**Customized Learning:** Informed by enhanced and expanded student data, which is applied to boost motivation and achievement, keeping more students on track for college and career readiness.

**Digital Learning:** Any instructional practice that effectively uses technology to strengthen a student’s learning experience.

**Higher Order Thinking:** A concept of education reform based on learning taxonomies such as Bloom’s Taxonomy. The idea is that while certain types of learning require more cognitive processing than others, they also have more generalized benefits.

**Learning Expeditions:** Students learn by doing, getting connected to their communities and learning the value of service. Results are demonstrated through products that are presented to a student's school community, and assessed via rubric. Students also learn how to think critically, solve problems and collaborate—the kind of Deeper Learning skills that will help them to succeed in college, the workforce and society.

**Learning Pathway:** Refers to the specific units or courses, academic programs, and learning experiences that individual students complete as they progress in their education toward graduation (Source: <http://edglossary.org/learning-pathway/>).

**Learning Targets:** Provide specific direction for both teachers and students by building a clear understanding of the target knowledge.

**MOOC:** Massive Open Online Course. A model for delivering learning content online to any person who wants to take a course, with no limit on attendance, often offered for free.

**Online Learning:** The ability to learn anytime, anywhere, from a tablet or other Internet accessible device.

**Pedagogy:** The art, science, or profession of teaching — reflects a style and set of choices made about a sequence of learning experiences. Pedagogy reflects content, activity, and assessment. It's the way you teach.

**Performance-Based Assessments:** Real or authentic task given to a student to demonstrate mastery. Usually written, oral, or problem solving exercises.

**Personalized Learning:** Paced to individual student needs, tailored to learning preferences and customized to the specific interests of different learners. Effectively utilizing technology gives students opportunities to take ownership of their individualized learning goals (Source: [National Education Technology Plan](#)).

**Playlists:** Similar to a feature of iTunes, playlists provide a way to share web-based content - videos, game units, simulations etc. — with students, in a sequence of learning experiences.

**Proficiency-Based Learning:** Refers to systems of instruction, assessment, grading, and academic reporting based on students demonstrating mastery of the knowledge and skills they are expected to learn as they progress through their education (Source: <http://edglossary.org/proficiency-based-learning/>).

**Project-Based Learning:** A form of inquiry-based learning that is contextual, creative and shared, where students collaborate on projects that require critical thinking and communication.

**STEM:** The focus of Science, Technology, Engineering, and Mathematics.

**Student Portfolio:** A compilation of student work assembled for the purpose of evaluating coursework quality and academic achievement, creating a lasting archive of academic work products, and determining whether students have met learning standards and requirements for graduation and grade-level promotion (Source: <http://edglossary.org/portfolio/>).

**Work-based Learning:** Provides opportunities for students to learn a variety of skills through rigorous academic preparation with hands-on career development experiences. Under the guidance of adult mentors, students learn to work in teams, solve problems and meet an employers' expectations (Source: [Utah State Office of Education Work-Based Learning Program Website](#)).

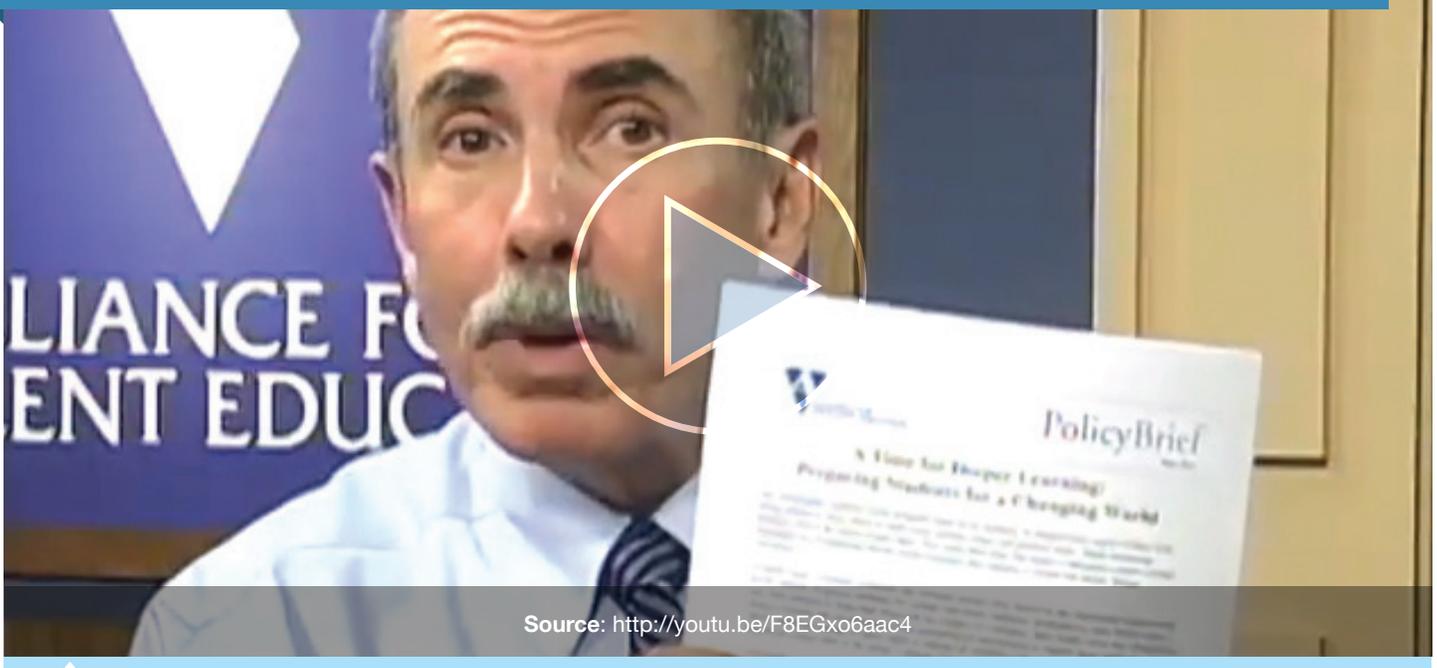
## INTRODUCTION

In describing its commitment to Deeper Learning, [The William and Flora Hewlett Foundation](#) “envisions a new generation of U.S. schools and community colleges designed to give all students — especially those from under served communities — the knowledge and abilities necessary to succeed in this new environment.”

These schools would create opportunities for students to develop the six Deeper Learning competencies described and defined by The Hewlett Foundation that are essential to prepare students to achieve at high levels.<sup>1</sup>

1. **Master core academic content.** Students develop and draw from a baseline understanding of knowledge in an academic discipline and are able to transfer knowledge to other situations.
2. **Think critically and solve complex problems.** Students apply tools and techniques gleaned from core subjects to formulate and solve problems. These tools include data analysis, statistical reasoning and scientific inquiry as well as creative problem solving, nonlinear thinking and persistence.
3. **Work collaboratively.** Students cooperate to identify and create solutions to academic, social, vocational and personal challenges.
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## VIDEO | Alliance for Excellent Education Webinar: “A Time for Learning”



Source: <http://youtu.be/F8EGxo6aac4>

## What is Deeper Learning?

The Hewlett Foundation defines Deeper Learning as “an umbrella term for the skills and knowledge that students must possess to succeed in 21<sup>st</sup> century jobs and civic life. At its heart is a set of competencies students must master in order to develop a keen understanding of academic content and apply their knowledge to problems in the classroom and on the job.”<sup>ii</sup>

The [Alliance for Excellent Education](#) (The Alliance) posits that Deeper Learning is what highly effective educators have always done — delivered rich core content in innovative ways that allow students to learn and then apply what they have learned.

Thought leaders like Ken Kay have spent more than a decade advocating for “21<sup>st</sup> Century Skills”<sup>iii</sup> including critical thinking, collaboration and effective communication. With similar aspirations, Michael Fullan and Maria Langworthy assert, “We need our learning systems to encourage youth to develop their own visions about what it means to connect and flourish in their constantly emerging world and equip them with the skills to pursue those visions. This expansive notion, encompassing the broader idea of human flourishing, is what we mean by ‘deep learning’.”<sup>iv</sup>

## Why Does Deeper Learning Matter?

The Alliance outlines the moral imperative for Deeper Learning experiences for more students:<sup>v</sup>

For years, U.S. schools have tended to offer a two-tiered curriculum, in which some students, primarily white and relatively affluent, have had opportunities for Deeper Learning; while others, primarily low-income and students of color, have focused almost exclusively on basic skills and knowledge. More affluent and white students get to analyze works of literature and write extensively, while low-income and minority students tend to complete worksheets that focus on memorization.

The economic imperative is equally compelling. According to a U.S. Department of Education report, “the well-being of the nation increasingly depends upon U.S. high schools rising to the challenge of preparing all students for a new economic reality.”<sup>vi</sup>

Dramatically boosting college eligibility and employability of America’s young people, particularly low-income and minority students, deserves to be a national priority. That requires not only mastery of basic reading, writing and problem solving skills, but also the ability to apply those skills, as a member of a diverse team, in a variety of settings. According to America’s leading CEOs, it requires work ethic, initiative and critical thinking.<sup>vii</sup>

The Alliance contends, “the weight of school tradition — with its emphasis on lectures and rote memorization — combined with the demands of state and federal education policies, often provide students leaving high school with an education that is, at best, the proverbial ‘mile wide and inch deep’. They can regurgitate facts and concepts but have difficulty applying this knowledge in new and practical ways.”

All student populations need a shot at college and careers. We need to create engaging opportunities for all young people to develop the knowledge, skills and dispositions necessary to have viable life choices in the ideal economy and to boost civic engagement and participation.

**The DLN is a network of networks** — 10 diverse groups of effective schools that show how Deeper Learning works systematically in real classrooms. Deeper Learning delivers the skills and knowledge students will need to succeed in a world that is changing at an unprecedented pace. Deeper Learning prepares students to: master core academic content; think critically and solve complex problems; work collaboratively; communicate effectively; learn how to learn (e.g. self-directed learning). Individually and together, DLN schools realize that what matters most is a student’s ability to understand the world around them and to apply their knowledge and skills to succeed in college and life. Learn more at [www.deeperlearning4all.org](http://www.deeperlearning4all.org).



# 10 DIVERSE GROUPS

## THE HEWLETT FOUNDATION'S DEEPER LEARNING NETWORK

### ASIA SOCIETY INTERNATIONAL STUDIES SCHOOLS NETWORK

Asia Society's International Studies Schools Network (ISSN) is a national network of design-driven public, charter and private schools committed to developing college-ready, globally competent graduates. The ISSN works with school communities to prepare students for work and civic roles in a globalized environment, where success increasingly requires deeper learning skills such as collaboration, critical thinking and teamwork. The ISSN has worked particularly hard to overcome chronic poor performance among low-income and minority students.

### BIG PICTURE LEARNING

Big Picture Learning (BPL) supports a network of fifty-six public schools located across the United States and a growing number internationally. Founded in 1995, BPL has refined and expanded its innovative public school design, which connects high school and college, to include support of urban and rural student populations. The core of the design is creating a learning program for each student, based on his or her academic and career interests and needs and on addressing essential learning standards. BPL schools promote learning goals to develop critical thinking, quantitative reasoning, communication, and collaboration.

### EDVISIONS

EdVisions Schools, a network of forty small schools, promotes relevant and personalized learning environments that emphasize self-directed, Project-Based Learning to empower students, parents, and teachers. Working primarily with underserved students in both urban and rural areas, EdVisions credits its success to its focus on teacher-led schools, positive caring relationships, mentoring, and active student engagement in school decision making. Students are measured on rigorous academics as well as the deeper learning skills needed for postsecondary education, careers, and civic engagement.

### ENVISION SCHOOLS

Envision Schools' curriculum and model utilize a "Know, Do, Reflect" approach to ensure that students excel at the Deeper Learning skills of thinking critically, collaborating productively and communicating clearly. At Envision's three small, urban public schools in the San Francisco Bay Area, students learn not only to master academic content (to "know"), but also how to apply that knowledge to real world situations (to "do"). Throughout the process of acquiring knowledge, they discuss and analyze how they are learning (to "reflect").

### INTERNATIONALS NETWORK FOR PUBLIC SCHOOLS

Since 2004, Internationals Network for Public Schools (INPS) has supported a network of schools that provide quality education for immigrant youth who have arrived in the United States with limited English language skills, varying degrees of schooling, and different literacy levels in their native language. The schools focus on developing language skills and preparing students with the knowledge and skills they will need for college. INPS' are close-knit, nurturing communities that support students who may feel displaced as newcomers to the United States and students accustomed to the U.S. but who are still not proficient in English.

### NEW TECH NETWORK

New Tech Network (NTN) is a nonprofit school development organization dedicated to ensuring that all students develop the skills and acquire the knowledge necessary to thrive in postsecondary education, careers, and civic life. Working with districts to build and sustain innovative K-12 public schools, NTN creates a rigorous and engaging school experience that features the intensive use of Project-Based Learning and technology and establishes a positive and engaging school culture. In the seventeen years since its founding, the network has grown to 133 K-12 schools in twenty-three states and Australia.

### HIGH TECH HIGH

High Tech High is a network of eleven schools in San Diego County, California, spanning grades K-12 that prepares students for college and careers by providing a personalized, hands-on approach to learning, strong connections between students and adults, and a common intellectual mission, with strong teacher leadership. High tech high is authorized by California to fully credential its own teachers and also opened a graduate school of education in 2007 that offers master's degree programs for experienced educators.

### ConnectED/LINKED LEARNING

Linked Learning is an approach that uses "pathways" to help students of all abilities connect learning to their interests and career goals. A pathway spans grades nine to twelve, connects high school and postsecondary institutions to ensure a smooth transition after graduation, and integrates rigorous academic instruction with demanding technical curriculum and field-based learning. Pathways are developed around industry sectors, such as business and finance, building and environmental design, biomedical and health sciences, or arts, media, and entertainment.

### NEW VISIONS FOR PUBLIC SCHOOLS

New Visions for Public Schools designs, creates and sustains schools for New York City's highest-need students and provides educators with the tools and training they need to analyze student performance, diagnose problems and design solutions to improve instruction. New Visions uses teacher-led inquiry as a fundamental strategy to translate higher standards into classrooms. In partnership with the New York City Department of Education, New Visions provides operational and instructional support to a network of 75 small schools serving nearly 50,000 students. In addition, New Visions hosts a charter management organization, which operates a growing network of charter high schools in under-resourced neighborhoods.

### EXPEDITIONARY LEARNING

Expeditionary Learning is a network of schools in which students learn by doing. Students at these schools learn math, science, history, English language arts, and many other subjects through projects, or "expeditions" that connect them to their communities and teach them the value of service. Students also learn how to think critically, solve problems, and collaborate—the kind of Deeper Learning skills that will help them to succeed in college, the workforce, and society.

## MOVING FROM THEORY TO PRACTICE

The question is how to promote Deeper Learning at scale. Fullan and Langworthy suggest the work starts by identifying enabling conditions, student roles and the tools and models that accelerate learning — that is the primary purpose of this paper.<sup>viii</sup>

A nomination form was developed based on The Hewlett Foundation’s Deeper Learning principles, schools from all over the country were nominated for participation in the project. Twenty schools met the Deeper Learning school criteria and were selected to participate. The Getting Smart team conducted interviews with the schools during the summer of 2013 to support final selection and to develop school profiles.

This cohort of Deeper Learning schools shows diversity in terms of geography, size, students served, school type — proving that Deeper Learning has the potential to improve outcomes for all students, regardless of their current learning environment.

Over the course of this paper, the unique attributes of schools are highlighted in the context of innovative models for teaching and learning. The paper’s appendix offers a collection of two-page school profiles that contains detailed information regarding each school’s characteristics and a set of profiles detailing the schools in The Hewlett’s Deeper Learning Network. These complementary components are intended to offer something for every reader — from students, teachers and parents, to local, state and national education leaders and policymakers.

# 10 CHARACTERISTICS

## THE 20 PROFILED SCHOOLS SHARED 10 CHARACTERISTICS THAT APPEAR TO PROMOTE DEEPER LEARNING:

### GOOD GOALS.

Schools that promote Deeper Learning competencies have thoughtful goals; they personalize learning and align supports, staffing and schedule. [Danville Schools in Kentucky](#) is a great example. Their goals focus on powerful learning experiences, growth, global preparedness, communication and community. Engaging all students in Deeper Learning starts with making it a priority.

### EQUITY FOCUS.

Schools that promote Deeper Learning engage all students—not just honor students and highly supported students—in experiences that help them master content, develop academic mindsets, promote collaboration and critical thinking and develop communication skills. According to principal Stephen Mahoney, “The accomplishments of [Springfield Renaissance School’s](#) students prove that a child’s ZIP code does not determine his or her destiny.”

### POWERFUL DESIGNS.

Deeper Learning schools are designed so that everything—structure, staffing, schedules and supportive technology—works together for students and teachers. It’s always a dynamic process, especially for leaders inheriting a school rather than designing from scratch.

### TEACHER SUPPORT.

The districts and networks studied provide a web of teacher support. They make it increasingly possible for all of their teachers to achieve great results with Deeper Learning goals, common instructional frameworks, learning platforms, and strong development systems for adult learners.

### SHOW WHAT YOU KNOW.

Profiled schools are competency-based, meaning that they ask students to “show what they know” in a variety of ways, including publicly presenting what they have learned. Students progress based on demonstrated mastery.

### STRONG CULTURE.

All of the schools have a powerful intentional culture. “We’re a values-first organization,” said [Bill Kurtz, CEO of DSST Public Schools](#), an example of a network with a strong culture where students receive regular feedback on attributes of character development. “Each human being strives to be fully known and affirmed for who they are and to contribute something significant to the human story,” said Kurtz.

### GOOD HABITS.

Deeper Learning schools help students build “habits of mind” including building perspective, asking questions and making connections. Some, like [Springfield Renaissance](#), complement these with habits of work: readiness to learn, active participation, assessing and revising, contributing to group work and completing homework.

### SENSE OF PLACE.

Deeper Learning schools extend the learning day, invite resources in, leverage community assets, encourage service learning and take students on learning trips.

### POWERFUL PROJECTS.

Profiled schools make good use of [Project-Based Learning](#). Project goals, often derived from student interest, always incorporate standards-based assessment, and periodically result in public demonstrations of students’ work. Some schools frame projects as civic or work-connected challenges, but they also conclude in rigorously scored assessments.

### GREAT QUESTIONS.

“We want people to be perplexed, to embrace the paradox of starting new schools,” said [High Tech High](#) founder Larry Rosenstock. Deeper Learning schools incorporate some of this “perplexity” into the curriculum by integrating subjects, assigning projects, hosting science fairs and creating demanding writing prompts.

## What does Deeper Learning look like in practice?

The 20 schools we profiled differ in a number of key ways. The cohort's diversity inspires hope about the potential of Deeper Learning to enrich learning for every student, every day. Across the nation, students in these 20 schools benefit from environments that replace traditional notions of schooling with innovative models of teaching and learning.

All of the profiled schools use a variety of strategies to personalize instruction. Personalization is an important foundation upon which Deeper Learning can be thoughtfully built. While it is sometimes used as an umbrella term for any form of learning that revolves around student needs, truly personalized learning is customized to meet individual learning needs, tailored to learner preferences, paced according to individual mastery of content and based on unique student interests.

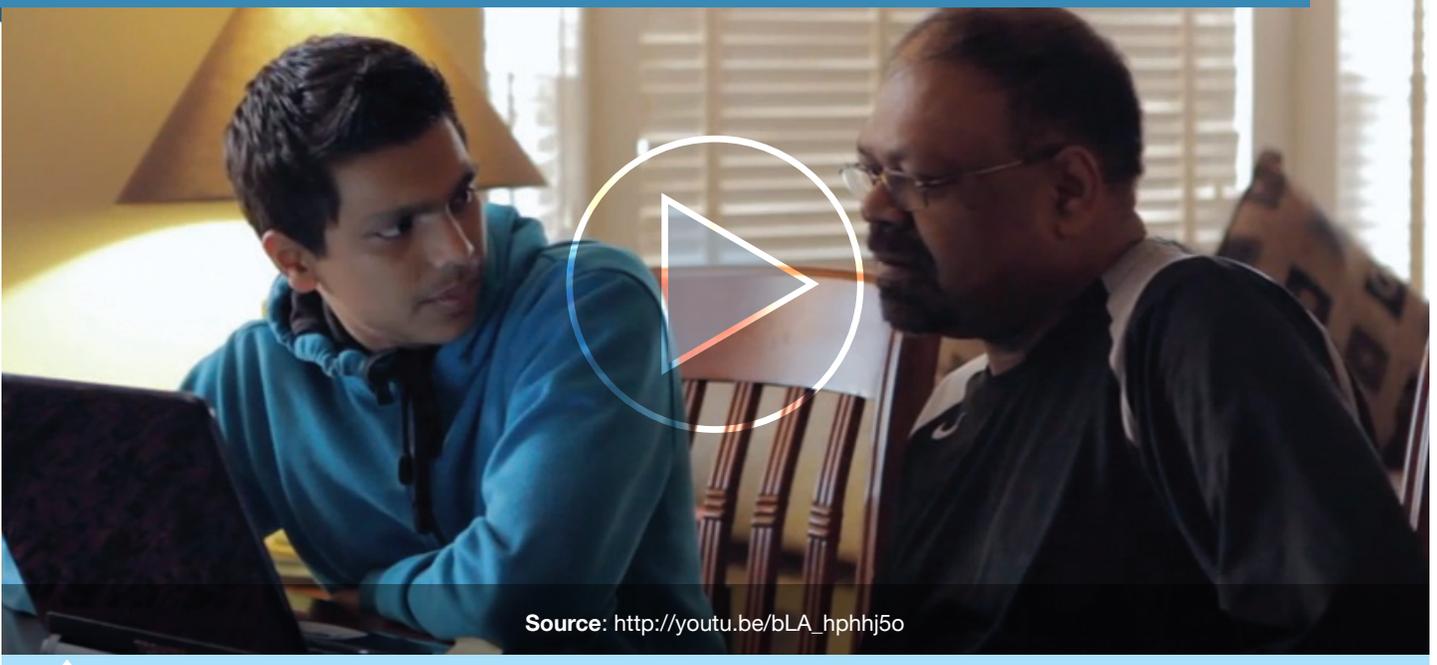
Most of the profiled schools make extensive use of Project-Based Learning, and some use blended learning and work-based learning strategies. All of them are competency-based — they ask students to show what they know and demonstrate mastery before progressing.

A previous paper summarized [How Digital Learning Contributes to Deeper Learning](#) and think tech-enabled Project-Based Learning holds great promise to boost college and career preparation. A group of schools that are particularly good examples were identified.

[High Tech Middle Chula Vista \(HTMCV\)](#), [DSST Stapleton High School \(DSST\)](#), [The Odyssey School](#), [Kearny High School of Digital Media & Design \(Kearny DMD\)](#) and other profiled schools suggest that to avoid low-level activities and promote Deeper Learning projects, it is helpful to:

1. Pick compelling subjects and help students frame big but specific questions.
2. Set rigorous goals. Outline high quality products that will be produced and judged with standards-based rubrics.
3. Make the projects long enough to go in depth and build in milestones to keep teams on track.
4. Ask students to publish their work and create venues for presentations of learning to the school community.
5. Create regular time for teachers to plan and collaborate.

## VIDEO | Student Voice: Experiencing Deeper Learning Through PBL



Source: [http://youtu.be/bLA\\_hphj5o](http://youtu.be/bLA_hphj5o)

Underlying the shift to blended and student-centered environments is the transition from marking time to tracking learning. In competency-based environments, students show what they know and they progress when they've demonstrated mastery.

In [Cohorts to Competency](#), the authors outlined advances in technology making it possible to bring competency education to scale, thanks to the growing set of tools that can help create and manage customized pathways. "Without leveraging technology and discovering new ways to use time and resources differently, we will fail to achieve the goals of college and career-ready standards. Shifting to competency-based education is an important step in the process."<sup>ix</sup>

Competency-based environments and policies can promote Deeper Learning where teachers ask big questions, build a culture of revision, demand public demonstrations of learning and collect artifacts that represent personal bests. Deeper Learning goals, shared practices and rigorous assessment protocols are key to success at scale. The [New Tech Network \(NTN\)](#) has a Project-Based Learning platform and a set of shared protocols that are a good example of tools, services and working agreements that will be necessary to bring powerful practices to scale.

The following sections describe each of the six Deeper Learning competencies and provide examples in practice.

**Master core academic content** – Students develop and draw from a baseline understanding of knowledge in an academic discipline and are able to transfer knowledge to other situations.

[Success Academy](#) is a New York City K-8 network (not profiled but a great example) where teacher selection and training demand a high degree of content knowledge. "Our teacher training is very focused on content work — studying and understanding the complex poem or math problem before they teach it," said a team member. "We want teachers delivering the highest quality lessons — creating engaging and thought provoking experiences for students."

As evidence of success, in the recently opened Bronx schools, 97 percent of students passed the new Common Core State Standards (CCSS)-aligned New York math test. Success Academy CEO Eva Moskowitz said, "We engage students with number stories everyday with 30 minutes of problem solving," Moskowitz, said, The brain-stretching work starts in kindergarten with fractions. Second and third graders receive adaptive math instruction from [Dreambox](#). Intermediate grades compete in math competitions. "Our students solve problems and have vigorous discussions about math strategies every day. We want students to develop conceptual understanding and know efficient ways to solve problems," Moskowitz said.

On the New York science tests, 100 percent of Success Academy fourth graders passed (and only one student did not receive the highest score possible). That's because they start daily science work in kindergarten. "Part of the way you get great results is creating schools children love to attend. We don't treat children as a captive audience; we have to generate that motivation and interest," Moskowitz, said.

Adaptive assessment and instruction quickly identifies a student's learning level and deliver tailored units of instruction. At the Odyssey School in Denver, Colo., executive director Marcia Fulton's push toward competency-based math programs led to students using [ALEKS assessments](#) in fourth and fifth grades. Students spend roughly 20 minutes during each day at school on math software and use it at home for skill practice. They also use a platform to monitor their progress against math targets they are mastering. In grades six through eight, students use a variety of resources to demonstrate competency in math targets/standards, including Khan, ALEKS, Assistent and Connected Math.

Core subjects can be organized in innovative and integrated courses. DSST uses Big History Project, a compelling history of how we got here, as a ninth grade block. Big History "covers the history of the universe, the planet and human history," said teacher Jim Stephens, noting that problem solving is the core of their innovative ninth grade curriculum. "Students have to have an understanding of how the earth works in order to decide how humans have interacted with it. They need to look at the history of the problem and solutions that have been tried or suggested already, before they can try to solve it."

[Envision Education](#) is a Bay Area network of innovative high schools. Superintendent Gia Truong explained that students have to defend their work in order to demonstrate mastery. They may have to go back and do some things again until they can prove mastery. Envision students are judged advanced, proficient or unsatisfactory. Proficient represents mastery of the state standards and the advanced one represents the ability to apply that knowledge to another situation. Unsatisfactory means the student gets to go back and try again. Envision encourages a culture of revision. "This build persistence in students and helps them to understand how they learn best," Truong, said.

Envision students are encouraged to know, do and reflect. “The reflection piece is critical and [Impact Academy of Arts and Technology](#) emphasizes the importance of taking a set of knowledge and skills and having the ability to apply that to new situations and problems,” Truong, said.

Mastering core academic content provides procedural knowledge. If knowledge is gathered within a conceptual framework, students begin to appreciate how experts solve problems and gain the ability to apply knowledge to real world situations. Case studies suggest that content knowledgeable teachers, adaptive tools, engaging applications and a culture of mastery contribute to mastering core academic content.

**Think critically and solve complex problems** – Students apply tools and techniques gleaned from core subjects to formulate and solve problems. These tools include data analysis, statistical reasoning and scientific inquiry as well as creativity, nonlinear thinking and persistence.

At [Anson New Technology High School](#) in Wadesboro, N.C., teachers are set up as facilitators rather than dispensers of information. Principal Chris Stinson says teachers often work in multi-disciplinary teams. For example, World Geography and Earth Science are taught together, as are American Literature and U.S. History and World Literature and World History. Big blocks encourage students to take on big questions, it forces them to sort and synthesize multiple sources of information and select the most appropriate problem solving and presentation tools.

Teachers across the 130 school NTN promote critical thinking by building it into rubrics used to assess student projects and encourage what Stinson calls a “strong culture of revision,” leading to deeper understanding, quality work products and habits of persistence.

Business and community members are woven into Anson projects to demonstrate the relevancy of what students are learning. “The local community has been trained now so when they have a problem, they come to us to solve it,” Ms. Stinson, reports. By way of example, she spoke of the agri-civic center now being discussed by the local legislature. Her math classes took on the challenge of figuring out the seating capacity as a project. Their ideas are now part of the community-wide discussion about the creation of the actual complex.

At [Bate Middle School](#) in Danville, Kentucky, Principal Amy Swann and her staff have spent the past few years “redefining what we think school ought to be.” One major change has been putting teachers together in think tanks and teams to develop an innovative plan for what they think the Bate experience should be and what they think is important for Bate students. This has resulted in dramatic changes in the way teaching happens there, one of which has been an increase in personalization of the lesson to meet the learning needs of the student.

When Swann asked them why they went into teaching, it led a discussion about which skills and things are important and should be focused on and emphasized. The discussion was lively and productive and eventually became the teacher-developed Bate Innovation Plan. The plan begins with the district’s goal for powerful learning experiences, incorporates Deeper Learning competencies and a commitment to rigorous performance-based assessment. Swann and her staff want 100 percent of their kids to be problem solvers. “We want kids to learn to ask the question – to have the ability to find the answers to questions they have not previously been given,” she said.

Deeper Learning requires students to formulate problems and generate hypotheses, to identify the data and tools necessary to solve a problem, to synthesize information from multiple sources and to construct supportable arguments.

**Work collaboratively** – Students cooperate to identify and create solutions to academic, social, vocational and personal challenges.

According to the director of communications for the NTN, Krista Clark, “Project-Based Learning is at the heart of NTN’s instructional approach.” She defines it as a form of inquiry-based learning that is contextual, creative and shared, where students collaborate on projects that require critical thinking and communication. At [METSAs New Technology at R.L. Turnery High School \(METSAs\)](#) in Carrollton, Texas, Project-Based Learning allows students to master academic content and then successfully apply that knowledge when solving the authentic problems that form the basis of their curriculum.

Kearny DMD is one of four career-focused autonomous high schools within the Kearny Educational Complex in San Diego, California. A focus on Project-Based Learning is supported by the creation of grade-level teaching teams with common preparation periods in order to allow for both formal and informal integration of curriculum, as well as the transfer and application of knowledge learned in the classroom to projects undertaken in real-world settings.

Principal Cheryl Hibbeln and her staff have students work on interdisciplinary collaborative projects at each grade level that require making connections between multiple subjects in order to address a real world problem. “Scheduling common prep times for teachers allows for teacher collaboration, as well as the integration of consistent language and instructional practices so that students gain an understanding that their classes are connected,” Hibbeln, said.

Anson Principal Chris Stinson believes collaborative problem solving begins by identifying an authentic, genuine issue of importance in the world and then working to solve it. Teachers at Anson often team-teach across disciplines. “We sub out our kids to the community all the time,” Mr. Stinson proudly states. Students have programmed a metal fabrication robot welder, created an entire light and sound system for the local arts council and updated old computers for a local pre-k program. By integrating real problems into the curriculum and having students work on solving it, Stinson says his team keeps their students headed toward the type of real working knowledge they can use in and after college. “They know how to collaborate with others and articulate their thoughts. They are globally aware, technically literate and able to show up on time,” Stinson, said.

Career readiness demands collaboration skills — the ability to work in teams to set goals, to incorporate multiple perspectives and to create quality work products. All of the profiled schools emphasize collaboration as an essential and explicit outcome of Project-Based Learning.

**Communicate effectively** – Students clearly organize their data, findings and thoughts.

In the eleventh and twelfth grades, students at Impact, a member of the Envision network in Oakland, California, participate in the Workplace Learning Experience (WLE). For three months, they work one day a week as an intern at a business. In order to secure a WLE, they must write and send out a resume and cover letters, then interview with potential mentors. Truong said, “We encourage them to seek an internship in a field of interest and the WLE helps many students identify their ideal career — or find out what they don’t want!” At the end of their internship, students present their experience in a public exhibition. “It’s a powerful experience that equips students with job search practice, self-confidence and first-hand exposure to a career field,” Truong, said.

“Students show evidence of effective communication skills in various ways,” said Trish Oliphant, head of Sussex Academy, “They must demonstrate effective communication within their team or group setting. Peers are held accountable to each other not only for their contribution to academic project content, but also for how well they are able to present project findings or product deliverables.” Every student maintains a portfolio that highlights their communication skills both written and spoken. Students must frequently present their “findings” or other evidence of their learning to their peers, parents and others.

Kearny DMD students develop effective communication skills while studying relevant local and global issues. Ninth grade students address how human attitudes and choices affect sustainability and environmental issues in the local San Diego region and propose a “Plan for Change” to the city council. In tenth grade, students address the problem of supporting global population growth in a sustainable manner through the creation of an informational PSA and website that is assessed by their client — Eco Kids. Juniors address the impact of choices as global citizens on issues of social and environmental justice. Juniors created and implemented the Mayor’s Green Student’s Youth Forum and prepared print and media campaigns for The Surfrider Foundation. Other assignments address regional problems from immigration reform and human trafficking, to promoting math and science education in middle school through the development interactive Internet games.

Effective communication includes listening and incorporating feedback, understanding diverse audiences and delivering effective oral and written presentations.

**Learn how to learn** – Students monitor and direct their own learning.

Casco Bay values student inquiry. As a member of the national Expeditionary Learning (EL) network, juniors engage in a long-term interdisciplinary project that demonstrates their learning. Last year, juniors visited the coalfields of West Virginia and developed a multimedia presentation of oral histories. “Learning expeditions, a central curricular structure at Casco Bay, are founded on the belief that students should and can solve real-world problems while mastering skills and content,” Principal Derek Pierce, said. The projects within each learning expedition require students to think critically. Learning how to learn means teaching students to be “metacognitive.” Reflection and revision, as well as self-assessment against learning targets, are core practices of the EL design. In each class, teachers use assessment-for-learning practices on a daily basis.

At the Odyssey School, another EL school, Executive Director Fulton explained that Odyssey strives to harness children's natural passion to learn and helps them develop the curiosity, knowledge, skills and personal qualities they need for successful adulthood. The school is founded on the philosophy that children learn best through personal, direct experiences designed to take advantage of their natural curiosity about the world. Expeditions are planned backward from guiding questions that require critical thinking and go in depth on important subjects and topics. Students are required to complete significant research and writing, and in order to complete their work, they must address multiple perspectives and form their own opinions regarding politically charged topics such as social progress, access for the disabled, pollution and waste disposal, and educational equity.

The goals at [MetEast](#) are academic rigor, interest-driven internships and training, graduation with a diploma, a post-high school plan and the skills necessary for college and career success. Students have the opportunity to learn in a place where they are known and where people treat each other with respect. Like other schools in the [Big Picture Network](#), MetEast students have personalized learning plans and internships that connect their interests to their learning, with the result being self-directed thinkers and learners with the skills necessary to succeed in college and beyond.

Most of the profiled schools ask students to set goals for many of their learning tasks, to monitor progress and to adapt their approach to complete a task or solve a problem. Schools like MetEast require more independent and work-based learning than is common in most U.S. high schools. Schools like Odyssey and Casco Bay challenge students with demanding projects that help students develop lifelong learning skills and dispositions.

**Develop academic mindsets** – Students develop positive attitudes and beliefs about themselves as learners that increase their academic perseverance and prompt them to engage in productive academic behaviors. Students are committed to seeing work through to completion, meeting their goals and doing quality work and thus search for solutions to overcome obstacles.

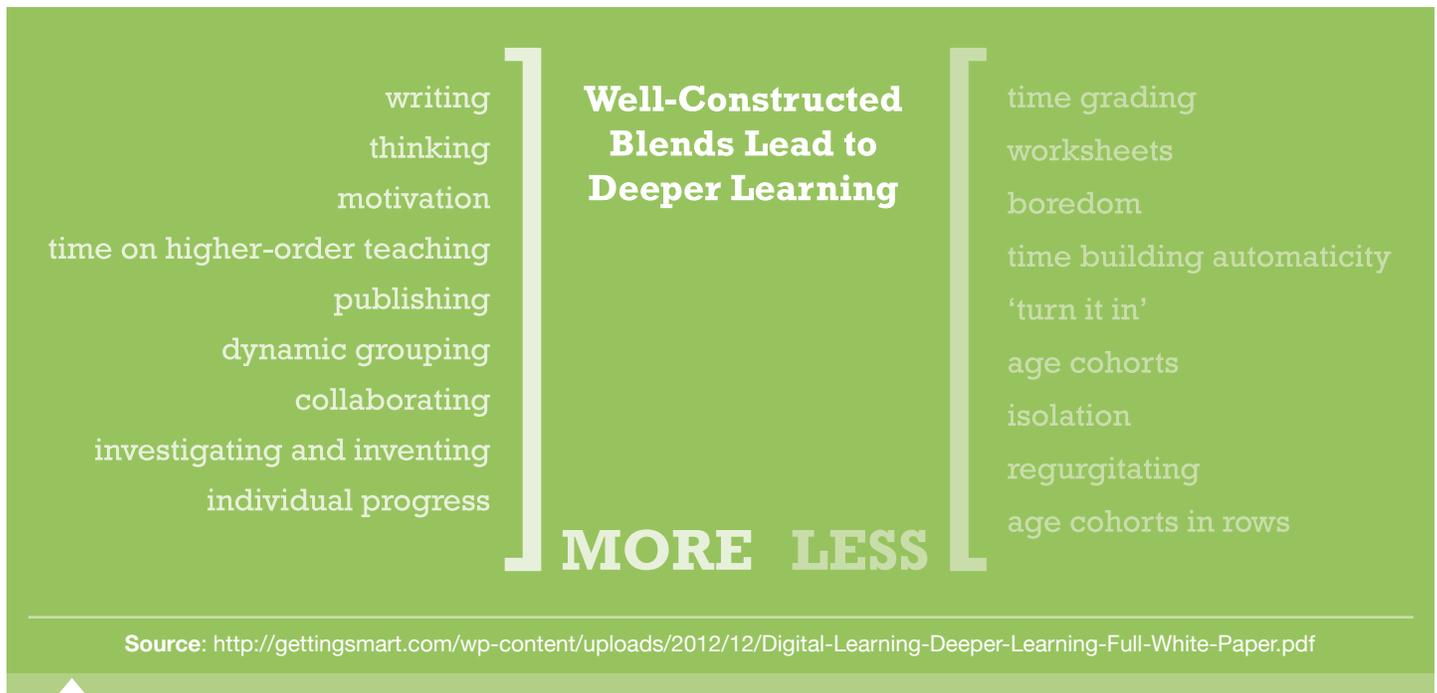
[IDEA College Prep Donna](#) is a Rio Grande Valley high school that offers the rigorous [International Baccalaureate](#) curriculum and anchors a high performing south Texas network. For seven consecutive years 100 percent of Donna graduates have gone to college. Developing and exhibiting an academic mindset is a school-wide effort and ingrained in the school culture. They celebrate academic achievement and recognize students for analyzing and providing rationale for their work.

Like many profiled schools, students at San Antonio's [International School of the Americas \(ISA\)](#) collect evidence of their best work in a digital portfolio. "Students develop a growth mindset throughout the four years by continually assessing their learning strengths and challenges, writing reflectively and creating annual and cumulative portfolios," Principal Kathy Bieser, said. "At the end of each school year ISA students present their portfolio to their parents, fellow students and other adults sharing how they have grown since the previous year, work they are especially proud of and the impact of their work on their future goals," she added.

Projects at the [Denver Center for International Studies \(DCIS\)](#) are scored on four domains of Global Leadership: Investigate the World, Recognize Perspectives, Communicate Ideas and Take Action. These four domains develop a framework for thinking and a rubric for evidence. By applying the rubrics to tasks in various subject areas, students become familiar with the evidence required to prove proficiency and are able to monitor their own progress. For individual assignments, the rubrics give students a clear idea of specific expectations, provide a focus for formative feedback from teachers and a "to do" list for revisions.

As DCIS students develop independence, they become partners in the development of classroom projects and leaders in initiating extracurricular activities such as clubs, school-wide or community events, and internships. The artificial separation between academic courses and experiential education is beginning to disappear and, in the competency-based environment, students are able to earn academic credit for out of school learning. The goal at DCIS is to develop a mindset of a lifelong learner.

Positive academic attitudes increase persistence and promote engagement. Profiled schools create a sense of belonging within a community of learners. They help students see themselves as achievers and build confidence with demonstrated competence. They help students gain insights into what motivates their learning and what strategies work best for them.



## CHALLENGING MISCONCEPTIONS

The implementation of the college- and career-ready standards and the next generation of online assessments, coupled with increased access to affordable technology, create an unprecedented national opportunity to reimagine teaching and learning. Innovators from the classroom-level teacher to national-level policymaker are seizing this opportunity to advance Deeper Learning outcomes. Educational leaders who are working to realize this vision are often faced with a set of common misconceptions that, left unchallenged, threaten the progress of the Deeper Learning movement.

This section identifies common misconceptions about Deeper Learning and uses examples from the schools we profiled to challenge existing myths. We begin with myths about students to show that Deeper Learning opportunities are not just reserved for a small crop of traditionally successful students. Next, we confront the myths related to Deeper Learning and the teaching profession. In the last portion of this section, we take on myths related to the system around the cost of Deeper Learning and community support.

### Myths About Students

#### Myth: Deeper Learning is Just for Suburban Students

Schools that serve high-challenge communities are assumed to be preoccupied with remediation. With the growth of double-blocked core subjects and managed instruction programs, it is easy to assume that engaging projects and what might be called enrichment activities only happen in independent or suburban schools. We found dozens of schools (and evidence of hundreds) serving low-income students coast to coast that refuse to default to a thin test-prep curriculum.

Profiled schools share six characteristics that appear to support the success of low-income students. These schools:

- **Share an equity focus:** a mission to serve low income students and communities;
- **Recognize but aren't trapped by tests:** use data constructively toward achievement of a broader set of Deeper Learning goals;
- **Use quality assessments to encourage quality instruction:** rigorous assessment of authentic work;
- **Scaffold Project-Based Learning:** provide individual targeted academic support to promote engaging team-based projects;
- **Think big:** broaden life experiences, make connections, ask big questions; and
- **Provide fortified environments to address negative effects of poverty:** strong student supports and positive behavior management system.<sup>x</sup>

HTMCV is a good elementary example of these six practices. Sixth graders often arrive with academic skills below grade level, most dealing with the stress effects of poverty. Rather than a scripted approach, the faculty created curriculum is based on the [High Tech High](#) design principles of common intellectual mission, adult world connection and personalization. “Because we are dedicated to providing a personalized environment for our students, we are constantly finding new ways to change and individualize how we teach. We aim to scaffold our projects and provide multiple entry points for all students, leading toward quality products and outcomes in which the content is fully understood,” Andrea Morton, humanities teacher, said.

Modeled after the original High Tech High, HTMCV is 25 miles southeast of San Diego and serves a higher-need population. Teachers constantly monitor student performance and quickly modify instructional strategies. Morton said, “If a student doesn’t understand a concept, teachers will offer one-on-one tutoring to ensure they do; a tutoring center is also available after-school. She noted that students often have the opportunity to work with local experts and other community members as they “develop their critical thinking, critique and presentation skills.” In the process, they “create beautiful, relevant work to share in the ‘real world’.”

Schools in the NTN like METSA, use Project-Based Learning to engage low-income students in Deeper Learning. “Our mission ensures that students are strategically prepared for the rigor and self-discipline of college and the innovative demands of STEM career pathways,” said METSA school Director Mansoureh Tehrani despite the fact that more than 70 percent of the Carrollton, Texas students live in or near poverty.

NTN students “collaborate on projects that require critical thinking and communication. By making learning relevant to them in this way, student engagement reaches new levels. This higher level of engagement is associated with better educational outcomes.”<sup>xi</sup> Network results suggest, “Working on projects and in teams, students are accountable to their peers and acquire a level of responsibility similar to what they would experience in a professional work environment.”

Kearny DMD focuses on real-world assignments and the development of an academic mindset. The latter is a significant challenge for many, according to principal Hibbeln, who serves a student population that is 85 percent minority and 67 percent free and reduced lunch. Because many students are functioning below grade-level, they require additional supports in order to develop academic competency as well as communication, collaboration and other skills required to work with outside professionals to complete complex projects. The Kearny DMD staff tackles these issues with what Hibbeln calls, “an intentional multi-grade approach and common instructional expectations for Deeper Learning.” She added, “The staff works to create meaningful and relevant standards-based lessons, establishes high expectations and then supports students as they take on the tasks set before them.” Supporting students in developing these higher-level skills has precipitated a shift in planning and instruction, project work and the structure of Kearny DMD courses.

Even though [Minnesota New Country School](#) is located in a town of only 900 in Henderson, Minn., Director Dee Thomas “wants to make sure they have a world focus.” They make sure they are exposed to the types of experiences that are not standard for poor farm boys in rural Minnesota, such as museums and opera and theater, etc. “To take a bunch of farm boys to the opera for the first time is amazing,” she said. “I took nine kids to Seattle. We got on the plane and I asked, ‘How many of you have ever flown before?’ Less than half.”

### **Myth: Deeper Learning is Just for Honor Students**

Students in the same big American secondary schools often have very different experiences: students that start a few grade levels behind get a thin drill-based pedagogy while high-performing students receive enriched coursework from talented teachers; struggling students often get a double dose of test prep while advanced students take thought provoking electives and challenging college level courses. Deeper Learning schools engage all students in meaningful work while supporting individual progress in content mastery, communication skills and problem solving.

Students at ISA engage in big projects each year. Only two months into their freshmen year, students write and perform a play in an elementary classroom. Sophomores study acculturation versus assimilation of indigenous groups. Juniors take on a modern injustice. Seniors wrestle with United Nations Millennium Development Goals. ISA creates a high-challenge, high-support environment for prospective teachers as well as students. As a professional development school for undergraduate students, ISA challenges assumptions about high schools and student learning. Interns experience a globally focused, interdisciplinary, Project-Based Learning, authentic and relationship-driven curriculum. Secondary schools that promote Deeper Learning competencies engage all students in powerful learning experiences; they develop academic mindsets scaffolded by strong supports.

Kearny DMD's Principal Hibbeln said, "a student-centered approach to teaching, teacher collaboration through common prep planning periods and a focus on engagement through real world Project-Based Learning [have been] major factors in the overall rise in student achievement." One of four academies on a big San Diego campus, the development of an academic mindset can be a significant challenge for Kearny DMD's students, many of whom come into high school functioning below grade-level expectations. Hibbeln and her staff tackle this issue through an intentional multi-grade approach and common instructional expectations. She said her teachers share a common belief that all students are capable of meeting high expectations and they hold students accountable to those standards.

Across the curriculum, Kearny DMD teachers emphasize Deeper Learning habits combined with skill building and high expectations to help students develop an academic mindset. The mission at Kearny DMD is to develop exemplary communication skills in students through authentic, media-based experiences in an environment of high academic and social expectations. In that pursuit, Kearny DMD emphasizes Project-Based Learning, which encourages the transfer and application of knowledge obtained in the classroom to the interdisciplinary projects students must complete each year. These projects integrate elements from each of their core courses and require students to make connections between multiple subjects and a real world problem.

Teachers at HTMCV work in cross-content area teams such as math and science to develop projects that focus on collaboration as well as mastering the skills necessary for each subject. In all classrooms, inquiry-based study engages student interest and encourages the development of essential skills such as cooperation, collaboration and effective communication.

"Many projects involve observing, questioning, predicting, researching, designing, experimenting and concluding and teacher strategies include research projects and papers, Socratic seminars, mock trials, debates, model creation, modifying existing designs, designing and conducting experiments, predicting outcomes, analyzing data and forming conclusions. Because we are dedicated to providing a personalized environment for our students, we are constantly finding new ways to change and individualize how we teach. We aim to scaffold our projects and provide multiple entry points for all students, leading toward quality products and outcomes in which the content is fully understood," Morton, said.

The four academies at [Reynoldsburg High School](#) (east of Columbus, Ohio) are developing capstone experiences designed to bridge high school coursework with college and job preparation. At [eSTEM](#), students can sign up for capstones experiences focused on design, logistics, or energy, environment and the economy. Each triple-block course packs in college credit courses (MOOC or AP), internships and undergraduate-style research projects. The combination of small academies and big blocks makes it easier to incorporate new delivery technologies and customized learning experiences. Reynoldsburg students all engage in big, relevant projects but receive individualized support. A student told the Columbus Education Commission they enjoyed individual pacing, more instructional resources and mastery-based progress where there is always the opportunity, "if you don't do well on a test you can go back and correct your work."

The 130 schools of the NTN share Echo, a Project-Based Learning management system. This year NTN launched two new online courses available across the network.<sup>xii</sup> Unlike traditional online courseware, each course at NTN is made up of a series of projects. Now scaling within network schools are College Ready Assessments embedded within projects that enable teachers to score individual student work, culminating in a rubric-scored performance assessment. Echo helps to ensure that each project is standards-based and aligned to the network's [Learning Outcomes](#) and is rigorously scored. It also includes an extensive curated library of projects that teachers can use or adapt. Because Echo has social learning features, students can learn to collaborate online. Over the next two years, the online classes will extend the reach of each teacher to more students and will provide all students with access to more quality options.

### **Myth: Deeper Learning is Just for Native English Speakers**

Students new to English are often placed in remedial programs with thin academic content. In addition to the border schools profiled, [Springfield Renaissance School](#), Kearny DMD and [Wyandotte High School](#) are good examples that Deeper Learning competencies and language acquisition are quite compatible. These schools with high proportions of English-language learners (ELL) are able to focus on mastery of English in the context of Deeper Learning instructional practices, developing these competencies in tandem.

According to Kearny DMD Vice Principal Sandra Cephas, "it's all about the type of learning students at Kearny DMD do — plus a few extras designed for ELL students but from which native speakers benefit as well." As Kearny DMD

is a Project-Based Learning school, the way students are educated depends largely on hands-on experiences. Because ELL students are never segregated from native speakers at Kearny DMD, they are always immersed in English language learning. In addition, teachers utilize SDAIE (Specially Designed Academic Instruction in English) strategies, which are designed explicitly for teaching academic content to English learners so students simultaneously gain mastery in the content area and in English. This approach requires carefully prepared instruction that allows students to access the English language content with support from material in their native language, including “reduction of teacher talk,” collaborative problem solving, extensive use of graphic organizers and other visual and manipulative tools and the type of critical thinking that comes from extensive teacher questioning. In addition, Cephas pointed out that teachers are supported by being in grade level teams with common preparation periods, during which they have time to discuss the specific needs of their students, including those learning English, in order to ensure that all students have the assistance and support they need to learn.

Stephen Mahoney, principal at Springfield Renaissance, a magnet school in Springfield, Mass., has opted for “push-in classroom support” and lots of time for teachers to consult with their colleagues regarding the progress of specific students. While he said they occasionally pull a student out of his or her classroom for support on a specific project, “our default is inclusion.” He noted “as a magnet school, we are disproportionately low in our ELL population as compared to the rest of the district.” His experience tells him that this is because many ELL families are not accessing the system. He said there is a limit to what he and his team can do outside of their own campus. “When I do outreach, I specifically go to the north end of the city, where we have a lot of ELL students,” he said. Mahoney emphasized the fact that just because a lot of ELL families are not accessing the system does not reflect a lack of interest, but rather the fact that because their English is limited means they have limited ability to access the choices available to them.

Walking the halls of Wyandotte in Kansas City, Kan., one is guaranteed to hear at least one unfamiliar language. According to Principal Mary Stewart, you might hear Burmese, Nepalese, Thai, or one of 17 other languages. In order to work with the 42 percent of students for whom English is not their native tongue, Stewart and her staff have developed three specific programs:

- The Newcomer Center is a classroom focused on students who are new to the country and have a disrupted educational history, often as a result of being refugees.
- Language Acquisition classes support the development of reading, writing and speaking in English, moving students from beginning to intermediate ability levels.
- Sheltered classes are made up entirely of non-native-English speakers and are taught by educators who are certified in ESL/ELL and are highly qualified in English, math, social studies, science, or consumer education.

According to Stewart, “the goal of our ESL program is to transition our students through the continuum of supports at the appropriate timing for each student.” In order to meet this goal, her ESL teachers meet each week to discuss the language acquisition and academic progress of each and every one of the 75-100 students. They also meet regularly with their designated small learning community teams to receive feedback from the non-ESL teachers in their community about individual student progress and any additional support that might be needed. Stewart describes it as a combination of problem solving and language acquisition.

## Myths About Teachers

High-quality teaching is an important ingredient in the success of a Deeper Learning school, especially as it relates to what The Alliance calls a “culture shift” from a “teacher-centric culture to one that supports learner-centered instruction with an intense focus on the student.”<sup>xiii</sup> A recent NRC report echoes this sentiment, noting that pedagogy must be a key element of Deeper Learning instruction. However, it doesn’t take a specially trained teacher to promote Deeper Learning outcomes.

### Myth: Deeper Learning Takes Superstar Teachers

Stories of innovative classrooms and schools may be dismissed as irrelevant or not scalable, because superstar teachers power those classrooms. But districts and networks are making it increasingly possible for all of their teachers to achieve great results with common frameworks, big goals, good plans, strong development systems for adult learners and learning platforms.

EL is a national network of more than 150 schools that share powerful design principles including “The Having of Wonderful Ideas.” EL schools feature dynamic leadership, compelling curriculum, engaging instruction, continuous

assessment and a positive school culture. Teachers in EL schools learn to use open-ended guiding questions to push students to search for evidence, form and articulate opinions and positions, and put together recommendations or conclusions that are then presented in a public setting. The EL frame isn't scripted and the network lacks a common platform, but the guiding principles and assessment strategies are powerful.

Bate principal Dr. Swann explains that her teachers are not all “superstars.” Together they developed the Bate Innovation Plan, which focuses on the district diploma, the book *Habits of Mind*, lots of project- and challenge-based learning and a balanced assessment system combining their experiential focus and performance-based assessments. She said she and her staff want kids to learn to ask the question, to have the ability to find the answers to questions that they have not previously been given and for 100% of our kids to be problem solvers. The Bate teacher conversation took place within a district with well-stated goals focused on powerful learning experiences, growth for all, global preparedness, effective communication and involved community. Good goals, a solid plan, shared protocols and strong academic systems help every teacher promote Deeper Learning competencies every day.

Hiring and developing teachers is Summit Public Schools priority. Demonstrated expertise across seven dimensions of the Summit continuum places teachers on one of four levels: basic, proficient, highly proficient and expert. The measured dimensions of teaching include Assessment, Content, Curriculum, Instruction, Knowing Learners and Learning (special education and ELL), Leadership and Mentoring. Placement and movement on the continuum are based on a combination of principal evaluation, peer evaluation and self-evaluation. The system empowers teachers to present evidence of their performance and growth. Each of the four steps typically takes two years to master. The competency-based system helps good teachers become great teachers by placing each teacher on a personalized plan for improving their practice — complete with actionable goals and metrics for measuring results.

According to Odyssey Executive Director Fulton, “leaders, teachers and students embrace the power of student-engaged assessment practices to build student-ownership of learning, focus students on reaching standards-based learning targets and drive achievement.” Odyssey requires everyone involved in the education process understand that the best way for students to learn is to continually assess their work using models, reflection, critique, rubrics and working with experts. It does not require that teachers be experts in all things. Fulton says it does require staff members to engage in ongoing data inquiry and analysis, examining everything from patterns in student work to results from formal assessments, disaggregating data by groups of students to recognize and address gaps in achievement. All of which can be taught if they are not part of a teacher's skill set upon arrival to the school.

### EMPOWERING TEACHERS.

At Bate Middle School, the goal is not getting teachers “on board” or achieving “buy in” explains Swann. Framing teacher involvement in those terms implies that they are signing-on to someone else's plan. Swann believes the most successful leaders empower teachers to be a part of the process and create a culture that promotes experimenting, “failing fast” and continually learning. It's a culture where faculty input is not just solicited but valued. Where teachers have meaningful involvement in developing and presenting plans and then bringing plans to a full vote before implementation begins. Principals like Swann recognize that leadership is not about control, but rather “letting go” and trusting in teachers and staff as professional educators who know their students and want what's best for them. Swann explains, “just as best practice means giving students a voice and choice, the same best practices apply to working with teachers and staff.” In fact, it is just as important to engage parents and the community as well by inviting them into the schools and keeping the lines of communication open. There are no shortcuts to this type of meaningful involvement. Swann says it takes two to three years minimum, with ongoing refinement for years to come, to achieve this type of involvement from parents and the community.

### DEEPER LEARNING FOR TEACHERS.

Executive Director Marcia Fuller points to a handful of strategies at Odyssey that promote a strong Deeper Learning environment in service of teachers and on behalf of kids. These strategies include:

- Practices that prioritize hiring teachers with dispositions that promote Deeper Learning instructional practices over degrees and experience.
- Professional development that is authentic and enriching to echo the Deeper Learning experiences of students.
- The creation of an annual staff work plan that is narrow and focused in order to facilitate “digging deep” as a learning community of adults.
- A school calendar that supports on-going professional learning — weekly early release days and full professional development days, classroom labs to observe and share best practices.
- Online tools that generate differentiated plans, feedback, resources and analysis.
- A culture that acknowledges and supports important adult learning elements such as peer-to-peer collaboration, regular feedback, self-reflection, goal-setting, formal mentoring, etc.

At METSA, they have been working closely with NTN on re-envisioning their academy to promote and support Deeper Learning. According to Director Tehrani, “we are developing standardized rubrics and performance assessments that can be used by all the schools in our network.” The goal of 100 percent college- and career-ready graduates and two years of development to support CCSS have culminated in a completely redesigned [School Success Rubric](#), resulting in rubrics aligned with learning outcomes for fifth, eighth and ninth through twelve grades. In addition to the Success Rubric, NTN teachers are supported by a common learning platform, a curated project library and frequent professional development opportunities.

## Myths About Schools

### Myth: Deeper Learning is Just for High-Performing Schools

Deeper Learning instructional practices are not just for schools that are already high performing. In fact, an emphasis on Deeper Learning competencies can be a core component of an overall school turnaround. Turning around low performing schools is tough, particularly high schools. Good schools have good goals;<sup>xiv</sup> they use a variety of strategies to personalize learning and align supports, staffing and schedule.

Efforts to turn around low performing schools often involve managed instruction: standards-based instruction, uniform pacing, benchmark assessment and professional development. Sometimes these efforts incorporate rich learning experiences but all too often, these well-intentioned efforts increase consistency while wringing anything interesting out of the day. To paraphrase Tony Bryk and Dick Elmore, moving from no teaching to some teaching isn’t always a path to good teaching.

MODEL ELEMENTS	TYPICAL TURNAROUND	DEEPER LEARNING TURNAROUND
<b>GOALS</b>	Improved test scores	Improved college & career readiness
<b>CURRICULUM</b>	Scripted approach	Challenging students in interesting ways
<b>SCHEDULE</b>	Uniform pacing guides	Mix of performance & project groups
<b>ASSESSMENT</b>	Benchmark quizzes	Rigorous assessment of authentic work
<b>ADULT LEARNING</b>	Professional development to boost fidelity	Field trips to learn from meaningful experiences

When it comes to turnaround situations, creating a positive culture and setting good goals are always the first step. Measurement around a few priorities can bring quick results and create momentum. It may be easier to implement a scripted approach, but three profiled schools suggest that creating structures and supports for adult learning will not only yield quick benefits, but will also lay the foundation for long-term success.

We found a group of schools that have dramatically increased student achievement in relatively short time periods by challenging students in interesting and authentic ways.

Many of the schools we found were “purpose built” for Deeper Learning outcomes and often part of a national network with a strong set of design principles and sometimes a shared learning platform. But we’ve also found great examples that challenge the assumption that Deeper Learning instruction can’t happen as a component of school-wide reform.

The Danville, Ky. district that is home to Bate turned 100 years old last year. When Bate originally opened, the entire student body was African American and served students through high school. The school began integration in 1964 and served grades seven and eight. In the 1970s, a new building was constructed and Bate began serving grades six through eight. “Eight years ago this school was on the state watch list,” said Superintendent Carmen Coleman. This month, [The Partnership for 21<sup>st</sup> Century Schools](#) named Bate an Exemplar School. Coleman said, “They’ve come a long, long way!” Two years ago they began adding Project-Based Learning and engineering, which begins with an

introduction to engineering and includes systems, gaming engineering and some programming courses from Stanford. They visited high-performing schools across the country. Project-Based Learning is supported through a flex-grouped schedule that allows teachers to block and mix classes as needed throughout the year. This schedule allows for more in-depth Deeper Learning experiences and applications of the skills and content the students are learning. In their redesigned educational environment, students receive in-depth experiences in engineering and the arts, as well as speech and communications, foreign language and a multicultural curriculum. This is accomplished through individual growth goals supported by individualized instruction in math and reading complemented by individual and team projects.

When Katie Decker was appointed principal in 2001, Walter Bracken STEAM Academy was one of the lowest performing elementary schools in Clark County. The school is in a low-income, predominantly Hispanic North Las Vegas neighborhood. Decker believed that choosing a STEAM (science, technology, engineering, art/design and math) theme would help form a school identity. Instructionally, she believes in finding out what students like and teaching them based on their interests. Art is infused into the STEM-focused curriculum. Students participate in a minimum of three field trips each year. Experts from the community support student immersion in real-world applications. In addition to community partnerships, the improvement formula includes parent involvement, an invested staff and effective use of technology.<sup>xv</sup> Grade level teams assemble a variety of instructional components and use social learning platform Edmodo to communicate and collaborate on assignments. Decker's enthusiastic leadership and relentless follow-through transformed Bracken into an award-winning K-8 program that is ranked among the top schools in district.

A visit to Wyandotte a dozen years ago convinced us that it was possible to convert a big, bad high school into a good college prep school.<sup>xvi</sup> Students choose from seven themed small learning communities that incorporate job shadowing, internships, field trips and hands-on learning. A solid core curriculum, a relationship-based advisory group and lots of peer instructional feedback made a big difference. Restructuring the Kansas City, Kan., high schools into small learning communities in 1999 improved graduation rates from 48 percent to 81 percent by 2005. Smaller communities and an advisory structure promoted personalization, built student persistence and boosted teacher and student collaboration within and across courses.

Getting students into the right math courses and focusing on the quality of instruction boosted math proficiency rates from seven percent in 2003 to 53 percent by 2008. The percentage of students reading proficiently nearly doubled over the same time frame. College enrollment rates doubled from a quarter to nearly half of the graduating class during the same period.

In what may be the most improved urban American district, the results at Wyandotte and other secondary schools were achieved by a sustained focus on rigor and relationships. They started with a new goal, college and career readiness (a novel idea 10 years ago). They got to know their students, improved course taking patterns and the teachers got on the same page about good teaching.<sup>xvii</sup>

Improvement efforts in metro Kansas City are supported by PREP-KC that encourages Deeper Learning outcomes by directing district partners to focus on rigorous math, early college and workforce preparation and by measuring progress in each area.

### **Myth: Deeper Learning Only Happens in College-Going Communities**

It can be a challenge to lift expectations in communities that do not have a strong history of sending students to college. All of the profiled schools do an admirable job of propelling first generation students into and through college, particularly Springfield Renaissance, IDEA Donna, ISA, Impact, Summit and Kearny DMD. Each of these schools use five common elements to propel students to college:

- Explicit goals: a college preparatory mission;
- Focused college preparatory curriculum (i.e., limited course options);
- Academic culture: shared pedagogy that incorporates critical thinking, problem solving and effective communications;
- Advisory system: college and career awareness, distributed counseling, academic tracking and peer support systems; and
- Access support: counseling, test preparation, applications and financial aid.

According to Principal Mahoney, when Springfield Renaissance opened in 2006, there were few options available within the public school system for students who wanted a rigorous college preparatory education. Springfield Renaissance has spent the last seven years filling that gap. 100 percent of its first four graduating classes were accepted into college, 78 percent of whom matriculated, compared to only 30 percent district-wide. Since then, each graduating class has maintained that 100 percent college or university acceptance rate and over 70 percent of those students have completed or are continuing their secondary education. According to Mahoney, “all our students know they are on the path to college from the moment they begin sixth grade. College planning and visits begin immediately.”

Springfield Renaissance, part of the EL network, has been designed to provide a rigorous college-bound program that impels and supports students to use their minds well, care for themselves and others, and rise to the duties and challenges of citizenship. The school’s explicit and consistent attention to character traits like self-discipline and perseverance serve to reinforce the academic mindset. According to Mahoney, “the school’s public, authentic, high-stakes performance assessments certainly draw the most attention. But ensuring that students’ voices are heard within each day’s class debrief, the common use of protocols such as Socratic seminars, fishbowls and save the last word are as important, if not more so, in reaching this population.” In order to make communication a daily experience, he has instituted monthly student-led class and division meetings and worked with his staff to create a curriculum that requires consistent student engagement. “What is important to keep in mind is that our college bound mission is not driven by the need for status,” says the school’s website, “It is our fervent hope that our students will use their college degrees to use their minds well, care for themselves and each other and rise to the duties and challenge of citizenship.” While status is not the goal, it is sometimes an unintended consequence. Renaissance has won state and national recognition and has become a sought-after pre-service internship placement for both teachers and counselors, hosting 12 to 18 teaching and counseling interns from six local colleges and universities each year.

IDEA Public Schools is a south Texas school network that prepares students from underserved communities for success in college and citizenship. IDEA is committed to “College For All Children” and has sent 100 percent of its graduates to college for six consecutive years. The first school, IDEA Donna has received authorization from the International Baccalaureate (IB) organization to offer the Middle Years and Diploma Programmes. IDEA students also participate in the Road to College curriculum, administered by full-time college counselors, beginning in sixth grade. The curriculum, developed with Uplift Education, a Dallas IB network, describes what it takes to succeed in a college and the barriers often faced by first generation students.

“We specifically target students who are the first generation to go to college in their families and then we focus on both skills and experience,” said Envision Education Superintendent Truong. “Some schools focus more on skills. Some focus more on experience. We focus on both in order to make sure that our graduates are really college-ready.” Like the two other Bay Area Envision high schools, Impact stresses core competencies including research, inquiry, analysis and creative expression. The Impact team focuses on Deeper Learning instructional practices across the curriculum: thinking critically, collaborating productively and communicating clearly. In a student’s first two years of high school, they participate in an advisory period, focused on helping students develop an academic identity, getting to know who they are as learners. The upper division advisory is geared toward work experience as well as researching and selecting a college. The idea that students learn most effectively when the coursework is engaging and relevant to their lives is central to Project-Based Learning. Truong said, “Our students put their knowledge to work while tackling complex, real-life problems and questions. Students are encouraged to know, do and reflect.” The reflection piece is critical and Impact emphasizes the importance of taking a set of knowledge and skills and having the ability to apply that to new situations and problems.

ISA pledges to graduate reflective life-long learners, individuals who approach each new experience mindful of previous learning and open to the possibilities of new learning and growth. ISA students develop a four-year portfolio tracking academic growth in each subject as well as Habits of Mind (e.g. persistence, thinking about thinking, managing impulsivity and the application of prior knowledge to new situations). Seniors present their portfolio to demonstrate that they have mastered ISA Performance Outcomes: Investigate the World, Recognize Perspectives, Communicate Ideas and Take Action.

Summit Public Schools network built Activate, a learning management system, with Illuminate Education to manage their student-centered learning environment. They also developed a Personal Learning Plan to track growth trajectory of knowledge, skills and success habits against college goals. Students falling short of their planned growth trajectory, on any front, will see a big red warning system. The system will also need to translate the innovative experiences into credits and grades for application to traditional universities.

### Myth: Deeper Learning Costs More

Many schools just wish they could do more for their kids. With no extra money, other schools find a way to engage students as makers, producers, journalist, historians and scientists. American schools spend more than \$10,000 per pupil annually.<sup>xviii</sup> There are hundreds of schools that spend less than average, yet provide deep engagement and authentic work. That's not an argument for spending less, but it is clear from profiled schools and the networks they belong to, that high engagement and thoughtful pedagogy doesn't need to cost more than a thin drill and practice.

Of the schools profiled, Bate, METSA, Springfield Renaissance and Kearny DMD provided particularly good examples of schools with very low funding that still create Deeper Learning experiences for students. As Bate Principal Dr. Swann said, "We are always working to find ways to incorporate as many innovative and deep learning experiences as we can at the lowest cost that we can."

Setting clear priorities has allowed the staff at Springfield Renaissance to offer a diverse academic and elective program that includes fieldwork with local and national experts, athletics and outdoor adventure, portfolios and internships, heterogeneous classes, AP courses, authentic performance assessments, peer critique and consistent individual reflection for all 700 Springfield Renaissance students. There are fewer electives and sports teams at Springfield Renaissance than at the comprehensive high school in town. As a magnet school, Springfield Renaissance submits an annual innovation plan. It outlines some of the tradeoffs including dropping a summer tutoring program for lack of funding. Springfield Renaissance relies on partners to help offer an interesting array of week long "Intensives" each semester.

Mahoney makes sure students and families are full partners in the school and remain involved throughout important decision-making processes. The school's motto is "Work hard. Be nice. Get smart!" "It captures the Springfield Renaissance spirit and culture, our shared values for students and staff and explains much of our success," Mahoney says. That kind of leadership doesn't cost more, but it makes a big difference.

According to Principal Hibbeln, Kearny DMD has recently shifted its Expected School-wide Learning Results (ESLRs) to emphasize and hold students accountable to deeper levels of learning, including critical thinking and creative/innovative thinking. This is important both in terms of the real-world educational approach, which relies on summative and formative assessment as well as regular interaction with professionals in the field of focus and because the adoption of the CCSS requires deeper levels of thinking and learning. Hibbeln noted "supporting students in developing these higher level skills has precipitated a shift in planning and instruction, project work and the very structure of Kearny DMD courses." According to her, what isn't required is more money. Future planning and staff development will revolve around the assessment of student progress and adjusting instruction so all students can succeed in this more rigorous environment. In pursuit of those goals, Hibbeln has already implemented an assessment model, which requires students to defend mastery of content and industry competencies, another major upgrade that added nothing to her per-student expenditures.



# 9 WAYS

Digital Learning Promotes Deeper Learning



## CREATING CONDITIONS FOR SUCCESS

The schools we profiled show what Deeper Learning competencies look like in practice and challenge common misconceptions about Deeper Learning experiences for students, teachers and the system as a whole. These school examples showcase what is currently happening on the ground and inspire the possibilities to bring Deeper Learning opportunities to every student, every day.

The process must begin with an acknowledgement of student learning goals and move through an implementation and evaluation effort that keeps student needs at the center. As our school stories have shown, Deeper Learning implementation can happen in a number of ways—from one teacher and one classroom that inspires school-wide change, to the creation of a new school with Deeper Learning competencies as a core design principle. Networks can play an important role in building capacity and resources.

In order to create the conditions for successful implementation of Deeper Learning instructional practices, those who are looking to implement or expand current opportunities must consider what experiences promote Deeper Learning outcomes, as well as the role of leadership and the implications for policy.

### What Experiences Promote Deeper Learning?

In “How Digital Learning Contributes to Deeper Learning,” we explained that if schools want to foster Deeper Learning outcomes, it is important to first determine what types of learning experiences are most likely to promote it.<sup>xix</sup> We determined the following opportunity set:

- New strategies and forms of delivery — such as blended learning, competency — based learning, online and anywhere/anytime learning, customized learning and social learning — have the potential to produce the types of teaching and learning experiences that can contribute to Deeper Learning experiences for every student, in every classroom.
- The best and brightest teachers may find ways to deepen learning in their individual classrooms, but there is no way to expand to scale in a way that can serve all students equally without technology.
- The CCSS prioritize these Deeper Learning opportunities with the intent of creating more rigorous and engaging lessons that allow increased critical thinking and knowledge application. The widespread implementation of the CCSS reveals a better match between content, instruction and Deeper Learning outcomes than in the past.
- The shift to next-generation assessments, slated to launch at the start of the 2014-15 school year from the PARCC and Smarter Balanced consortia, provides additional evidence of the movement toward teaching and measuring Deeper Learning skills and dispositions.

### Leading for Deeper Learning Outcomes

Whether in the development of a new school or the turnaround of a chronically underperforming existing school, leadership is an important part of the equation. The schools we have reviewed so far, as well as those that follow, reveal the importance of transformational leaders who keep students at the center of the school’s mission.

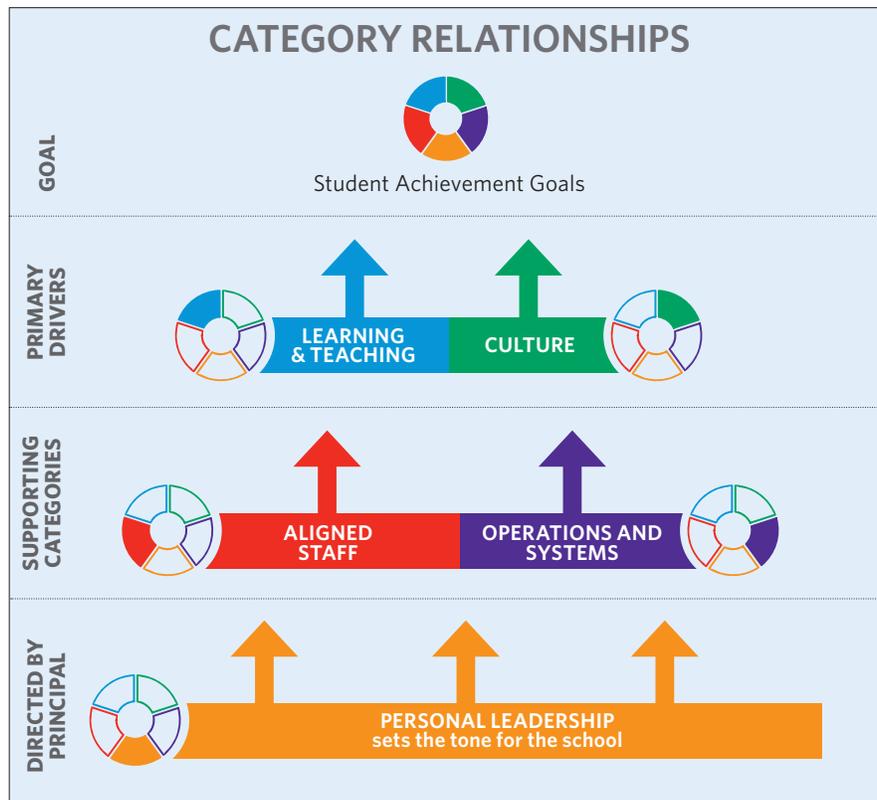
The majority of schools we studied were purpose-built and more than half belong to school development networks committed to Deeper Learning instructional practices — two big advantages for leaders seeking to consistently challenge and engage students in meaningful work. For leaders working in existing schools that were not purpose built, there is still an opportunity for them to become purpose-led by meaningfully engaging the staff and the community in developing and building a plan around a vision for Deeper Learning outcomes.

School-wide adoption of Deeper Learning strategies and practices takes leadership. The profiled schools have an unusually high number of school-wide agreements. These are not schools where teachers are freelancing; they may have autonomy but they work together within a shared frame with common strategies and practices.

Add the rapidly increasing array of blended tools and strategies and the number of school-wide agreements doubles. As we noted in the [Blended Learning Implementation Guide 2.0](#), big leadership decisions include goals, school model, platform and content, devices, staffing and staff development.

## Leadership Levers

New Leaders created the [Urban Excellence Framework](#) to identify key levers for change. The primary drivers (shown in the exhibit below) are culture, learning and teaching. The last five common elements we found fall in this category. Supporting levers include aligned staff, operations and systems — the first five foundational elements in the list above.



**Figure 1:** [Urban Excellence Framework](#)

Good schools have more school-wide agreements than schools on autopilot — that’s particularly true for schools promoting Deeper Learning outcomes because they use sophisticated rather than scripted instructional strategies.

Incorporating blended learning strategies may double the number of school-wide agreements — it mucks around with all of the operations and systems. This is compounded by the fact that the opportunity set is evolving and suggests that these agreements must be frequently reconsidered.

The most important implication of this dynamic opportunity set is that school leaders need to be conversation leaders and agreement makers. They need to help their school communities become aware of the needs for high standards, strategic options and emerging opportunities. They need to craft temporary agreements that allow the school to move forward with the expectation that agreements will be reconsidered as opportunities and challenges warrant.

Agreement crafting is tough enough when we’re talking about instructional strategies (e.g., projects versus direction instruction) but when you start experimenting with the operations and systems (e.g., standards-based grading and competency-based progressions), it gets everybody’s attention.

Conversation leaders facilitate field trip leaders — one way or another they transport people to the desired future state. That may be visiting an innovative school, reading and discussing [NGLC profiles](#), or sharing a virtual field trip to [Carpe Diem in Yuma, Arizona](#). At Bracken STEAM, Principal Decker creates time during the day for [teachers to take field trips to other classrooms in the school](#). The New Leaders report suggests that a principal’s personal leadership is foundational for a school’s success an observation confirmed by Decker’s conversation leadership.

## Leadership Stories

Larry Rosenstock of High Tech High is one of bridges from Ted Sizer to the future. In creating High Tech High, he incorporated and updated Coalition of Essential Schools principles. His network of 12 schools propels diverse students to and through college at an impressive rate — with about twice the average participating in STEM fields. He’s building an online course to share his lessons learned. Rosenstock wants more, “Yes, this could be you” moments, where students can picture themselves doing interesting and important work. The following are ten design principles as described by Rosenstock:

1. When starting a school, ignore a few basic axioms. There are a lot of things you don’t need: bells, public address system and separate bathrooms.
2. Keep it simple: complex structures drive complex behaviors.
3. Make it about adult learning.
4. People need to change conditions (Dewey); they should be in a constant state of reinventing things including themselves.
5. We should ask students to use your head, use your hands, make things and think about things.
6. We should think more about production technology than consumption technology.
7. Keep tinkering with your school, taking things apart and putting back together. Let people mix it up. Keep it interesting.
8. Balance stability versus churning—not unstable but not stuck.
9. Let students do most of the talking and adults do most of the listening.
10. Be about be revealing, about uncovering (not just covering content), ask students to do field work. Ask student to demonstrate their learning.

Kearny DMD uses an emphasis on “Habits of Mind” — significance, perspective, evidence, connection, supposition — developed by small-school reform leader Debbie Meier, combined with skill building and high expectations to help students develop an academic mindset.

## VIDEO | TedxDenver Speech by Marc Chun



Source: <http://youtu.be/k6BmbdzPcrY>

As part of her ongoing effort to lead her staff and students ever farther into Deeper Learning experiences, METSA's Director Tehrani spearheaded efforts during the 2011-12 school year to improve her students' literacy skills, enhance the rigor of their Project-Based Learning units and deepen their ability to think critically, knitting the entire initiative to the CCSS in reading and writing. She said, "The need for this initiative is self-evident. We had already adopted learning outcomes around student reading and writing. We know that this is a high-value skill for our state testing scores and every teacher understands that a student's reading level is closely related to how well they do in mastering other subject matter and their success in life. We believe that improving Project-Based Learning strategies to support student literacy across the curriculum is a great way to improve overall student success."

### Policy Implications

It is important for schools, districts and networks to acknowledge the role of local, state and federal policies in the implementation of Deeper Learning instructional practices. It is equally important for policymakers and influencers to acknowledge the impact of policy decisions on schools.

Bringing Deeper Learning experiences to every student will necessitate shifts in policies related to student assessment, staffing, school funding, teacher preparation, professional development and more. Often, it is the elimination of existing policy barriers that can create the necessary policy space for educational innovation to thrive. For example, competency-based Deeper Learning instructional practices require the elimination of policy barriers around notions of seat time and student matriculation.

"How Digital Learning Contributes to Deeper Learning" lays out 10 recommended next steps for state, district, network and philanthropic leaders to expand Deeper Learning opportunities:<sup>xx</sup>

1. **Write the CCSS:** encourage more writing and explicit writing instruction
2. **Do science:** model instruction to match next-generation science standards
3. **Good tests:** support quality PARCC and Smarter Balanced tests and sound implementation
4. **Coherent state policy:** build upon frameworks such as Digital Learning Now! 10 Elements for High-Quality Digital Learning
5. **Intellectual mission:** support statewide authorization of Deeper Learning networks
6. **Extended reach:** support school models that use technology to leverage great teaching
7. **Deep, not shallow, blends:** provide incentives for school models that promote Deeper Learning outcomes
8. **Deeper Learning platforms:** sponsor the development and adoption of platforms that promote Deeper Learning instructional practices
9. **Leadership development:** support individual and cohort learning experiences for leaders
10. **Convene:** collaborate in person and online to share resources and form networks

### CONCLUSION

We set out to identify schools that offer examples of high quality Deeper Learning instructional practices as a beginning and not an end. This project matters to us, not because we wanted to highlight 20 schools that are leading the way in their own communities, but because we want to shine a light on the greater potential of Deeper Learning experiences to reach every student, everywhere, every day. While collecting and reporting on forward-leaning schools is an important and worthwhile exercise, it is only one small fraction of our overarching, long-term goal to expand Deeper Learning outcomes at scale.

In order to keep us moving toward the goal of Deeper Learning competency for all, we must collect and disseminate examples of promising practices, create opportunities to learn from one another, challenge misconceptions about Deeper Learning instructional practices and then get to work by creating the conditions for success in our own communities. We must acknowledge existing barriers and be realistic about current implementation challenges.

Fullan and Langworthy identify four fundamental barriers that stand between the theory and practice of Deeper Learning, including inadequate development of the following:<sup>xxi</sup>

1. Policies and system-level strategies that enable diffusion;
2. Accepted ways of measuring Deep[er] Learning;
3. Adoption of new pedagogical models that foster deep learning; and
4. Knowledge of how students adopt deep learning practices.

New standards, new assessments, new instructional models and new technologies create an unprecedented moment in time to move education toward a more personalized, customized, student-centric system. We hope that these examples will inspire our readers and show the potential of Deeper Learning.

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Carri Schneider is the Director of Policy and Research at Getting Smart. With a background in both policy and practice, she has taught in classrooms from elementary schools to college campuses. Carri served as an online educator from 2005–2012 in a fully online master’s program in educational leadership and has authored several pieces on the future of education. She co-edited the book *Building a 21st Century U.S. Education System* with Bob Wehling, published by NCTAF. Carri has been actively involved in supporting education policy efforts to advance digital and blended learning opportunities as a consultant to state and national organizations. She holds an M.Ed. in educational administration and an Ed.D. in urban educational leadership.

**Tom Vander Ark**

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Tom Vander Ark is author of *Getting Smart: How Digital Learning is Changing the World* and founder of Getting Smart, an education advocacy firm. Tom advocates for innovations that customize and motivate learning and extend access. Tom is also a partner in Learn Capital, an education venture capital firm investing in edtech start-ups. Previously he served as president of the X PRIZE Foundation and was the first executive director of education for the Bill & Melinda Gates Foundation. Tom served as a public school superintendent in Washington State and has extensive private sector experience. A prolific writer and speaker, Tom has published thousands of articles. He writes a daily EdWeek blog, Vander Ark on Innovation and makes regular contributions to GettingSmart.com. Tom is a director of the International Association for K–12 Online Learning (iNACOL) and several other nonprofits. Tom received the Distinguished Achievement Medal and graduated from the Colorado School of Mines. He received his M.B.A. in finance from the University of Denver.

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# APPENDIX A:

## DEEPER LEARNING SCHOOL PROFILES

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ANSON NEW TECHNOLOGY HIGH SCHOOL  
BATES MIDDLE SCHOOL  
CASCO BAY HIGH SCHOOL  
DENVER CENTER FOR  
INTERNATIONAL STUDIES  
DSST STAPLETON HIGH SCHOOL  
HIGH TECH MIDDLE CHULA VISTA  
IDEA COLLEGE PREP DONNA  
IMPACT ACADEMY OF  
ARTS & TECHNOLOGY  
INTERNATIONAL SCHOOL  
OF THE AMERICAS  
KEARNY HIGH SCHOOL OF  
DIGITAL MEDIA & DESIGN  
METEAST HIGH SCHOOL  
METSU NEW TECH AT  
R.L. TURNER HIGH SCHOOL  
MINNESOTA NEW  
COUNTRY SCHOOL  
REYNOLDSBURG HIGH SCHOOL,  
eSTEM ACADEMY  
SPRINGFIELD RENAISSANCE SCHOOL  
SUMMIT PUBLIC SCHOOLS:  
RAINIER & TAHOMA  
SUSSEX ACADEMY  
THE ODYSSEY SCHOOL  
WALTER BRACKEN  
STEAM ACADEMY  
WYANDOTTE HIGH SCHOOL

# ANSON NEW TECHNOLOGY HIGH SCHOOL

## Leaders of the Pack

*Anson New Technology High School provides a 21<sup>st</sup>-century education embedded in a culture of trust, respect and responsibility.*

*Principal Chris Stinson*

### SCHOOL INFO:

**Location:** Wadesboro, NC

**Type:** Public

**Focus:** Project-Based Learning

**Network:** New Tech Network

**District:** Anson County School District

New Tech Network consists of 130 academically-rigorous schools that feature pervasive use of Project-Based Learning and technology, along with a positive and engaging school culture.

### BY THE NUMBERS:

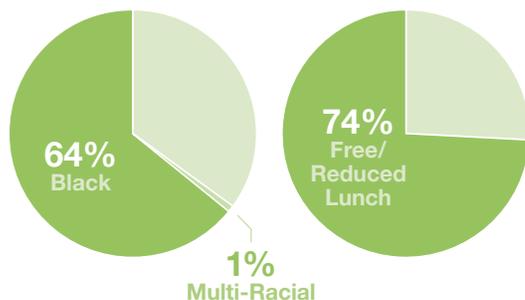
**Date Opened:** 2007

**Grades Served:** 9-12

**Enrollment:** 155

**Teachers:** 7

**Students Demographics:**



### What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

According to Principal Chris Stinson, Anson's Project-Based Learning approach means students identify a globally important issue such as climate change and then work to solve it.

For example, students in Stephanie LaBree's biological studies class complete a unit of study she created on how food is broken down and used in the body. From this, students understand the importance of what they eat. They are evaluated through projects that focus on mastering all of the Deeper Learning outcomes.

Critical thinking is encouraged through the design of the rubrics used to assess student projects. A student is evaluated and considered proficient, advanced, or unsatisfactory. The proficient section of the rubric represents mastery of the state standards and the advanced section represents the ability to apply that knowledge to another situation. Unsatisfactory means the student will be given an opportunity to go back and try their project again.

"We also focus on questioning," said Stinson. "We answer a student's questions with questions, and teachers discipline themselves to ask students 'why?' at least three times in order to assess understanding by eliciting the critical thinking, problem solving, and effective feedback producing aspects of Deeper Learning."



The MSNBC town-hall style show, *A Stronger America: Making the Grade in Detroit*, featured a panel of education experts. Anson New Tech was featured as an example of a successful school.

## Student Spotlight:



(From left) student Casey McElroy; Eustace Conway, from the TV show *Mountain Men*; and student Matt Carpenter (right) at the launch of *Living off the Land 2.0*, a locally-based, student-created and operated sustainable agribusiness.

The *Living Off The Land 2.0* project was designed to help students foster an understanding and appreciation of agriculture, health, and economic development, and was kicked off by television star Eustace Conway of *Mountain Men*, a show about living off the land.

The project has three phases: planning and preparation, which entails researching, designing, and laying out the vision for students' agribusinesses; construction, which involves building fences, greenhouses, and other necessary infrastructure; and implementation and sales, which will require students to plant, grow, and then sell their products and collect seeds for future use. The project requires critical thinking, collaboration, communication, and self-direction. This locally-based, student-created and operated sustainable agribusiness demonstrates the Deeper Learning concepts put into action outside the classroom.



GettingSmart.com  
Deeperlearning4all.org

**Anson New Technology High School**  
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[www.ansonschools.org/home](http://www.ansonschools.org/home)

## USING PROJECT-BASED LEARNING TO HELP STUDENTS GRADUATE CAREER AND COLLEGE READY

Anson New Tech is a prime example of the benefits of Deeper Learning. The school has helped students in their small, extremely poor rural community to graduate with the skills they need to be successful in life. As an NTN demonstration site, Anson welcomes visitors who are looking to see the New Tech Network Deeper Learning network in action.

“Our students are taught to become independent researchers who must ask questions in order to learn,” said Principal Stinson. “They are taught early on that, while the answers may easily be found on Google, they must then think critically in order to validate those answers.” He notes that learning in this type of environment, one that does not teach at you but rather empowers you to learn fosters collaboration between students as well as with members of the local community.

Students focus on the Deeper Learning core competencies in addition to the school's eight 21<sup>st</sup>-century learning outcomes: written communication, oral communication, collaboration, technology literacy, work ethic, content proficiency, critical thinking, and global awareness.

“Students here are given relevance along with rigor,” said Stinson, and offers the school-wide farm project as an example. Students create their own agribusiness, the plans for which must be presented to a team for review before implementation. Students use hydroponics, aquaponics, and other forms of sustainable farming, and are employing solar-power and other alternative energy sources for their greenhouses and other energy needs. Throughout the project students are thinking critically, working collaboratively, and communicating effectively all while mastering core academic content—a perfect example of Deeper Learning.

Teachers at Anson often team-teach, integrating related subjects such as world geography and earth science or American literature and American history. In addition, business and community members are so often part of the learning process that Stinson says, “they have been trained now so when they have a problem, they come to us to solve it.” Anson students are able to tackle real-world issues and solve problems through community projects.

Students are encouraged to become active in community projects to expand their learning opportunities. For example, Anson students have programmed a metal fabrication robot welder, created an entire light and sound system for the local arts council, culled through and updated old computers for a local Pre-K program, and submitted seating capacity and layout suggestions for a potential agri-civic center currently under consideration by the county. By integrating real problems into the curriculum and having students work on solving them, Stinson says his team keeps their students headed toward the type of real working knowledge they can use in and after college.

Anson has designed its curriculum so that students who graduate will qualify for college admission. Although the choice of higher education is completely up to each student, those who don't attend college will still have skills that make them extremely marketable. Every student leaves Anson with the ability to collaborate with others and articulate their thoughts, they are globally aware, technically literate, and punctual – all of which are qualities that students will need to succeed in today's economy.

# BATE MIDDLE SCHOOL

## Deeper Learning Through Performance-Based Assessments

*We want students to become researchers, inquirers, and 100% problem solvers.*

*Dr. Amy Swann, Principal*

### SCHOOL INFO:

**Location:** Danville, KY

**Type:** District

**Focus:** Applied Learning

**District:** Danville Independent Schools

### BY THE NUMBERS:

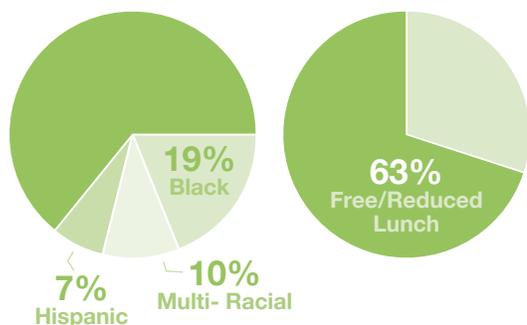
**Date Opened:** 1974

**Grades Served:** 6-8

**Enrollment:** 409

**Teachers:** 22

**Students Demographics:**



Dr. Amy Swann, principal at [Bate Middle School](#), says the challenge her school faces is redefining the educational experience they offer to ensure that the entire student body is educated. “We want to equip our students to answer questions to which they have not previously been given the answers.”

In the redesigned educational environment at Bate, students receive in-depth experiences in engineering and the arts, as well as speech and communications, foreign language, and a multicultural curriculum. This is accomplished through a combination of project- and inquiry-based learning, individual and team challenges, individual growth goals, and individualized instruction.

In addition to the problem solving activities, Swann says students are continually given complex problems designed to challenge them individually, encourage team building, and learn group problem solving abilities.

The intention is to “go above and beyond the national and state standards to ensure that our students have the skills they need to be successful beyond our building, throughout life,” Swann said. As part of the school’s new individualized assessment system, students showcase mastery by taking on new roles as researchers, scientists, journalists, engineers, and artists. The system for performance-based assessments at Bate is a leveled system built to teach and assess the Common Core, the ACT skill sets, and 21<sup>st</sup> century skills. The Bate system was built to combine subject areas instead of assessing and teaching them separately. Several times over the school year students will participate in formal performance-based assessments with both internal and external scorers and observers present.

## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

## Middle School Students as Researchers & Inquirers

### 6<sup>th</sup> GRADE

Students Complete Group Defenses as a Graded Requirement in Math/Science & ELA/Social Studies.

### 7<sup>th</sup> GRADE

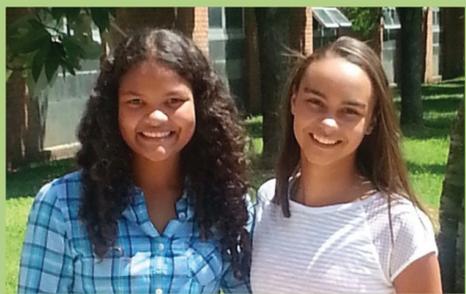
Students Complete a Defense as an Individual Performance-Based Assessment in Math/Science.

### 8<sup>th</sup> GRADE

Students Complete a Defense as an Individual Performance-Based Assessment in ELA/Social Studies.

Students as Inquirers. Learning to Defend Learning.

## Student Spotlight:



*Cousins Kennedy (L) and Alyvia Walker, now ninth graders, baked s'mores in the solar oven they built for the NASA engineering contest this summer and were rewarded with the chance to interview astronauts in space.*

Eighth-grade cousins Alyvia and Kennedy Walker chose to enter the NASA Summer of Innovation's engineering design challenge in order to develop their Deeper Learning competencies. The challenge required building a solar oven, which they used to make delicious s'mores. Their construction earned them the privilege of interviewing astronauts in space. "The things students have done and created when allowed to follow their passions are amazing," Swann said.

The Walker cousins asked about the effects of long deployments on astronauts' musculo-skeletal systems and learned that the effects of microgravity are being studied by NASA. Their science teacher, Tony Carney, spoke of how proud he was of his students and admitted that he was just as entranced as the kids when watching the astronaut answer questions while floating around. "We were speaking live with someone miles up in space, it was just mesmerizing."

## TEACHERS WORKING TOGETHER TO CREATE STUDENT SUCCESS

Deeper Learning is integrated across the curriculum through creative scheduling and team teaching in science, math, social studies, and English. Student creations such as "Product Claims Busting" in science and math classes, and the "Hometown Heroes" in social studies and English classes are examples of projects that require real-world applications of skills, collaboration, as well as integration of the different subjects being studied. "This work is supported through a flexible grouped schedule that allows teachers to block and mix classes as needed throughout the year for more in-depth and time consuming deeper learning experiences and applications of the skills and content the students are learning," Swann said.

According to Swann, each student works with his or her teachers to create individualized learning goals, in order to meet every student where they are and challenge them to reach benchmarks and beyond. Goals are also created to ensure that students are able to demonstrate competency in each course subject area.

Bate started with the goal that each student would accomplish at least one year's academic growth and reach their state benchmarks, but eventually determined that those goals were not challenging enough. Many of the students needed more than one year's worth of growth to reach their benchmark. Other students needed goals well beyond benchmarks and grade level standards.

The entire staff has worked together to develop and institute a Deeper Learning plan for the 2013-14 school year. During their weekly team meetings, teachers give each other feedback on projects they are planning to use in order to maintain the appropriate focus and support the continuation of Deeper Learning experiences. This is a major departure from previous years, when standardized assessments were the focus.

Swann said, "Starting this year, the staff at Bate has decided we need a balance and focus on Deeper Learning experiences, applications, and performance-based assessments, in addition to helping students prepare for the ACT and standardized assessments that in a few years will open the gates to colleges and financial aid for our students."

With that goal in mind, the staff has worked on all aspects of the school's culture and expectations so students are encouraged and supported in a goal-oriented setting as well as creating and maintaining an academic mindset.

"Another example of how the academic mindset has become ingrained in our culture is that in our engineering courses we have 30 percent female students, which is well above the national average of 10 percent," said Swann. "The difference is that here at Bate, learning and academic excellence have become not only the expectation but also 'cool' and our female students don't know that it is not typical for them to go into engineering and excel." The "cool" factor for students in demonstrating academic achievement is very prevalent across the grade levels and the challenges. It is a big switch in a turn around school where learning, academic achievement, and school were previously just not fun and were not "cool."



GettingSmart.com  
Deeperlearning4all.org

**Bate Middle School**  
460 Stanford Avenue  
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www.bms.danvilleschools.net

# CASCO BAY HIGH SCHOOL

## Get Smart to Do Good

*Casco Bay is a community of learners where the wonderful in each student is known and nurtured, where learning is catalyzed by student inquiry and academic adventure, and where every graduate is prepared for college, work, and citizenship.*

*Principal Derek Pierce*

### SCHOOL INFO:

**Location:** Portland, ME

**Type:** District

**Focus:** Applied- and Project-Based Learning

**Network:** Expeditionary Learning

Expeditionary Learning promotes high achievement in over 160 schools across the country by connecting student learning to the real world - using "learning expeditions" (extended projects) that join rigorous academics with citizenship and service to their community.

### BY THE NUMBERS:

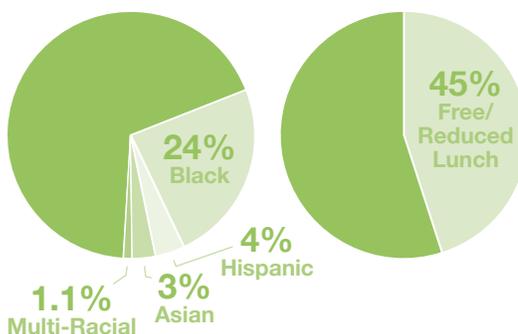
**Date Opened:** 2005

**Grades Served:** 9-12

**Enrollment:** 335

**Teachers:** 23

**Students Demographics:**



### What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

Principal Derek Pierce describes the mission of Casco Bay High School as educating each student to meet rigorous, vital standards, as well as to consistently exceed personal bests in scholarship, service, and character. Pierce and his staff are dedicated to making sure that each student who comes through their Expeditionary Learning (EL) program obtains the long-term benefits of that mission, and achieves their overarching goal of learning to build relationships as part of a curriculum that is relevant and rigorous.

"Casco Bay celebrates academic rigor the way other high schools celebrate football stars," Pierce explained. Learning Expeditions, a central curricular structure, are founded on the belief that students should and can solve real-world problems while mastering skills and content. Each year, the projects within learning expeditions require students to think critically, work independently and cooperatively, and create a culminating project that proves their mastery of the required material.

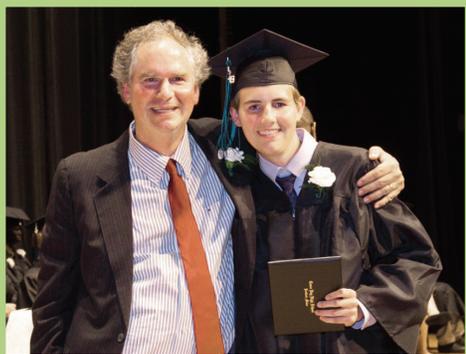
Course standards and long-term learning targets are part of the proficiency-based assessment and grading system. Each class requires students to master 10 to 15 learning targets, based on Common Core State Standards. According to Pierce, students must exhibit mastery of each of those standards on multiple rigorous assessments and performance tasks in order to receive credit for the course. "Communicating ideas is a core component of literacy across the disciplines," said Pierce. "For example, science classes have a 'scientific communication' course standard," and all Learning Expeditions contain strong writing and presentation elements, each of which uses rubrics to foster strong communication skills.

### A Set of Distinct Practices Define Casco Bay High School's Academic Program:



- Learning Expeditions
- Rigorous Academics and Focus on College Preparation
- Building Character and an Ethic of Service
- Portfolios
- Adventure and Fitness
- Fieldwork

## Student Spotlight:



Principal Pierce (L) and Sam Pierce at Casco Bay's 2013 graduation ceremony.

Sam Pierce's senior project was about STEM education. Its culmination was the Creator Expo, a venue for artisans, crafters, engineers, and inventors to display their work and educate the public about what they do and how they do it.

For Pierce, who plans to study engineering in college, it was a way to spread his dreams and thoughts to everyone in the community and to share his passion for the processes employed by "anyone who uses their mind to invent or build something."

His principal, Derek Pierce (no relation), could hardly contain his enthusiasm. "Sam's 'Maker Faire' is precisely what we envision with our Senior Expeditions. It's an opportunity for students to not only pursue a passion but deepen it - and share it with the world."

## USING TEAM WORK AND EXPEDITIONS TO ENGAGE STUDENTS AND STAFF

A major portion of students' experience at Casco Bay is their participation in several interdisciplinary Learning Expeditions each year. For example, in one Expedition students studied the Appalachian coal mining industry by interviewing senior citizens whom either worked in the industry or were impacted by it, and created multimedia biographies of those interviews.

While on the Expedition, students also participated as volunteers with Habitat for Humanity, but said the highlight of their trip was the time they spent interviewing people about their lives. "These projects are inherently motivating and intense. They get kids thinking hard and wanting to figure out the answers," said Pierce. "They confront kids with compelling topics that force investment of both head and heart."

Regarding the type of work students are required to complete, freshmen put on an environmental symposium at the local university, in which they present information they've researched about how to create a sustainable Maine. Sophomores make pitches to a panel of experts in an attempt to win a grant to support a humanitarian cause in Africa. Juniors research and write public policy-oriented white papers, which they defend before a panel of community experts. Finally, seniors design their own Learning Expeditions for the purpose of taking action in their community to positively impact a condition or situation they've researched.

One of the most significant student displays is the Sophomore Passage Presentation, which comes at the halfway point of high school. Sophomore Passage gives each student an opportunity to demonstrate who they are and where they want to go, reflect on growth, develop their presentation skills, and share and develop their own talents and passions. It's the gateway to being an upperclassman and requires a 15 minute presentation that indicates "substantive reflection" on the questions: Who am I? How am I doing? What are my plans for the future? The audience includes a panel of students and staff, and the presentation grade appears on the student's transcript.

Among the things student presentations must illustrate is the integration of Casco Bay's Habits of Work—which include collaboration, accountability, and perseverance—into the student's academic mindset. "Students working together to accomplish more than they could individually is a central tenet of the EL model. Learning Expeditions are designed to encourage collaborative problem solving, while ensuring each student is accountable for learning and participation," Pierce said.



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<http://cbhs.portlandschools.org/>

# DENVER CENTER FOR INTERNATIONAL STUDIES

Develop the Mindset of a Lifelong Learner

*To prepare students for college by developing multi-lingual, inter-culturally competent citizens who are actively involved in our rapidly changing world.*

## SCHOOL INFO:

**Location:** Denver, CO

**Type:** District

**Focus/Network:** International Studies Schools Network

Asia Society's International Studies Schools Network (ISSN) is a national network of 34 design-driven public, charter and private schools focused on delivering an academic program that prepares students for college, work, and civic roles in a globalized environment.

## BY THE NUMBERS:

**Date Opened:** 2006

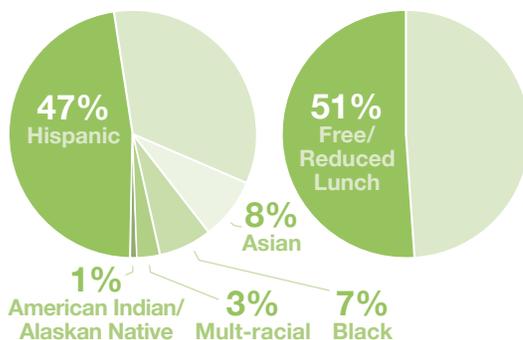
**Grades Served:** 6-12

**Enrollment:** 768

**Teachers:** 52

**Per Pupil:** \$3,872

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

Denver Center for International Studies (DCIS) is a Denver Public magnet school and a member of the Asia Society International Studies Schools Network serving grades 6-12. For the fourth year in a row, DCIS has achieved over a 90 percent graduation rate and among those students, they saw a 100 percent college acceptance rate. The interesting and relevant coursework they provide plays an important part in the school's success.

In addition to a standard diploma, students at DCIS can work toward the highly respected Diploma of International Studies. In order to obtain this type of diploma, students must successfully complete five areas of focus; global studies, world language, community service, special international projects, and core classes. DCIS has found that this focus creates graduates who are able to stand out as globally aware citizens.

Students at DCIS participate in three semester-long research projects known as Passages. During this time, students are challenged to think critically, analyze complex situations using data, and practice leadership and presentation skills. The process is similar to a doctoral thesis with a proposal, a committee, and a defense-style presentation. Some projects are independent and others are conducted collaboratively by a team.

DCIS students also have the opportunity to become fluent in world languages, to learn with students of different cultures and to travel abroad allowing them to practice language and cultural skills.

The school expects its graduates to be global leaders and prepares them for this important work by giving them the skills, knowledge, and cultural awareness needed to make an indelible mark on our world.



Denver Center for International Studies

## Student Spotlight:



Catarina Loveless is currently a senior at DCIS. Recently, Loveless found that she has a passion for organizing events and bringing people together. While attending an Italian Cultural Event she was

approached by the owner of the Bella Sera Event Center. Loveless spoke with the owner and shared her passion for event organization, as well as the independent studies she had been conducting as part of the Passages program.

Loveless invited the owner to come to DCIS, and organized a presentation event for her fellow students about event organization, the career paths available at Bella Sera Event Center, and her company. At the end of the presentation, the owner shared that she was impressed by the independent studies that Loveless had conducted and their professional interactions. The owner also told the audience that she had created an internship position at Bella Sera Event Center for the summer and invited Loveless to join her team.

Loveless shared that the individualized and Deeper Learning that she received at DCIS has opened doors of opportunity and new goals for her life. She is currently looking forward to starting her internship and beginning her studies at the Metropolitan State University of Denver with a degree in Hospitality and a minor Culinary Arts.



GettingSmart.com  
Deeperlearning4all.org

### Denver Center for International Studies

574 West 6<sup>th</sup> Avenue  
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<http://dcis.dpsk12.org/>

## USING PROBLEM- AND PROJECT-BASED LEARNING TO DEVELOP INTELLECTUAL INDEPENDENCE AND AN ACADEMIC MINDSET

DCIS students are encouraged to continually engage in challenging projects and coursework. Students in grades 6-12 are introduced to a wide range of social and environmental problems, both global and local. Recent projects have addressed issues such as the environmental impact of raising corn and its effect on the global energy industry. As students progress, they assume more responsibility in selecting issues to be examined and in seeking out alternative approaches to the problems being studied. Students who hold strong views on a topic are encouraged to explore alternative perspectives.

“Students learn to adjust when research hits a dead end,” said Asia Society Associate Director Lisa Tyrrell, “or when outside events present obstacles. They learn to reframe a question and take advantage of opportunities for learning that might not have been their initial focus, but often turn out to be most significant.”

DCIS creates opportunities to develop global competence across the curriculum. To earn a diploma, students must successfully curate a portfolio of their best work, guided by the four domains of global leadership:

- Investigate the world: generate global knowledge;
- Recognize perspectives: apply cross cultural understanding;
- Communicate ideas: connect and communicate across boundaries; and
- Take action: enact global solutions.

The four domains are the basis of the rubrics teachers use to assess individual and group tasks in every subject area. Use of common rubrics across the curriculum allows students to become familiar with what is required to prove proficiency and enables them to monitor their own progress. Tyrrell said, “as students develop independence, they become partners in the development of classroom projects and leaders in initiating extracurricular activities such as clubs, school-wide or community events, and internships.”

The curriculum for every class emphasizes using evidence to support claims. In science, students apply the use of evidence to lab reports, in social studies to deliberate on current issues, and in English language arts to rhetorical arguments. Students attack each subject area through authentic tasks. These tasks demonstrate a deeper understanding and mastery, through purposeful and engaging real-world problems.

Students are taught to manage projects using timelines and checklists and to perform self-assessment using rubrics. Peer review helps students gain an appreciation for quality work and a deeper understanding of the rubric assessments.

According to Tyrrell, “complex projects and authentic tasks break down the artificial separation between academic courses and experiential education.” DCIS students are partners in the development of classroom projects and leaders in initiating service learning and extracurricular activities.

Project-Based Learning develops intellectual independence and an academic mindset. It also introduces competency-based flexibility, where students can prove mastery of a subject to earn course credit. Big questions and the school’s global leadership framework promote high expectations, independent thinking, and lifelong learning.

# DSST STAPLETON HIGH SCHOOL

Driven to Improve Student's Lives Through Education

*We want students to develop a love for learning, so we teach much of our content in a way that they can apply the process of learning to whatever they're passionate about.*

*Jim Stephens, Big History Teacher, Social Studies Department*

## SCHOOL INFO:

**Location:** Denver, CO

**Type:** Public Charter

**Focus:** STEM

**Network:** DSST Public Schools

DSST Public Schools have designed an academic program to prepare all graduates to enter four-year colleges with an emphasis on STEM (Science, Technology, Engineering, Mathematics) fields of study in order to become entrepreneurs and innovators in the future.

## BY THE NUMBERS:

**Date Opened:** 2004

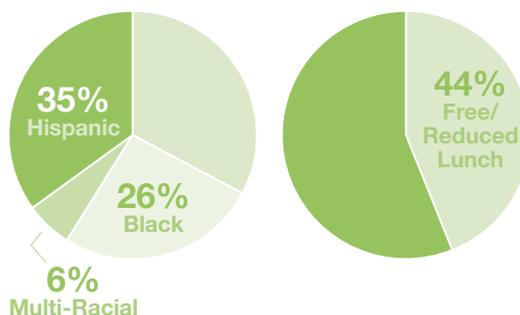
**Grades Served:** 9-12

**Enrollment:** 500

**Teachers:** 40

**Per Pupil:** \$6,868

**Students Demographics:**



## What is Deeper Learning?

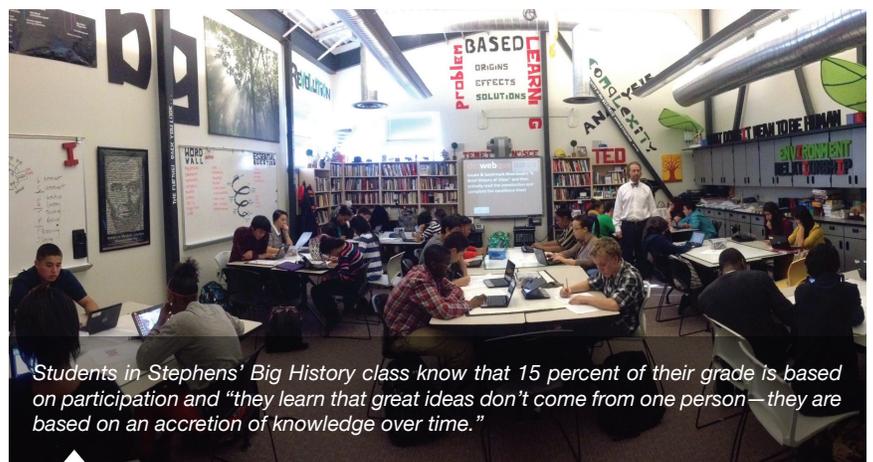
Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

Jim Stephens is the Big History Teacher within the Social Studies Department at DSST: Stapleton High School, formerly Denver School of Science and Technology, which anchors a Denver network of STEM-focused schools with a clear goal of sending every student to a four-year college. The data-driven network tries to practice brain-based instruction.

“Students probably use their computers more frequently than I do, especially in eleventh and twelfth grades where students are using tablets daily alongside the curriculum,” Stephens, said. “In my class we’re using them mostly for research, evaluating sources, things related to information literacy. It’s funny, we’re the school of science and technology, yet we’re conscious of students using analog more and computers less than some other schools. We’re a one-to-one laptop school, but a computer is really viewed as a tool, rather than the solution.”

Data is collected for individual student improvement rather than a whole class or grade. This approach encourages students to remain aware of their own progress, allowing them to be aware of their overall grade and their ability to master each individual concept.

Stephens describes the classrooms as highly structured environments where everything is broken into 10-minute segments. Beginning with an activity that requires action as soon as the students enter the classroom, called a “do-now,” moving through several “checks for understanding,” which allow teachers and students to determine levels of comprehension, and ending with a form of assessment called an “exit ticket.” Recently, teachers have begun adding material from the book *Brain Rules* by John Medina, which Stephens described as “multi-



*Students in Stephens' Big History class know that 15 percent of their grade is based on participation and “they learn that great ideas don't come from one person—they are based on an accretion of knowledge over time.”*

“We’re a values-first organization,” said Bill Kurtz, CEO of DSST Public Schools. “Each human being strives to be fully known and affirmed for who they are, and to contribute something significant to the human story.” That may sound more like a humanities network than a group of STEM schools, but the DSST team embraces the big questions.

Kurtz has created a collaborative environment known as a “distributed leadership” model that attempts to leverage each person’s individual talents. In hiring their team of teachers, Kurtz said DSST looks for leaders, “there has to be a commitment to demonstrated leadership without a title.”

“Character starts with the adults,” said Kurtz. That means core value commitment, modeling, 360-degree evaluations, and celebrations. “We’re working hard to scale culture as we grow 35 percent per year.”

The seven DSST schools serve 2,800 mostly low-income minority students who receive a grade on each of the school’s core values each trimester. The shared values include student decision-making on deciding whether students return from a suspension. “It’s a high care, high accountability culture,” Kurtz said.

## Goals of the Big Picture Project:

By sharing “the big picture” and challenging students to explore the relationship between key events over time, Big History ultimately helps young people develop key critical thinking skills and the ability to better synthesize and apply complex information. These skills are vital, not only to more advanced, discipline-specific work in the sciences and humanities, but also to help students understand and evaluate individual and collective impact as well as potential.

sensory approaches to teaching and learning.” Medina’s book was introduced into the school’s pre-service professional development several years ago in an attempt to integrate differentiation and data into their best practices.

While the passing grade for schoolwork is 70 percent at DSST, Stephens outlined their unique policy for smaller tests and quizzes. The lowest score a teacher will give is 50 percent, because a 35 percent only serves as discouragement and the point is to educate. Students often retake assessments as many times as necessary. “This assessment framework is not the same one we started with,” Stephens noted. “We tweaked it as needed to make sure the assessments are doing what they are intended to do—help students reach mastery.”

## PREPARING ENTREPRENEURS AND INNOVATORS OF THE FUTURE

DSST aims to “create an environment where students have to learn something where we didn’t provide direct instruction,” said Stephens. He explained that the school’s core values of “doing your best, being responsible, and practicing integrity are all related to learning the skills required to be a learner.” DSST was established on the philosophy that learning how to learn is more valuable than any content alone. We want our students to be thinkers and doers, not Jeopardy champions. The “flipped classroom” model has become popular in many DSST classes. This is where the content is accessed at home via the web while time shared in class concentrates more on illustrating understanding of the content through assessments and projects.

Big History Project is an example of these values in action. This free online social studies course for secondary schools that DSST uses, covers the history of the universe, the planet, and human history. “Students have to have an understanding of how the earth works in order to decide how humans have interacted with it. They need to look at the history of the problem, and solutions that have been tried or suggested already, before they can try to solve it. This is problem-based learning,” said Stephens.

“In Big History, we talk about the history of the human brain and how it works, which helps kids understand why we teach the way we do. We want them to understand that if you’re interested in something, you can use the skills you learned in the study of the American Revolution to study guitar or soccer or whatever interests you,” Stephens, said.

“We want students to develop a love for learning,” he continued, “so we teach much of our content in a way that they can apply the process of learning to whatever they’re passionate about.” However, as a classroom teacher, Stephens knows that learning can be frustrating. “We don’t say it’s easy, but we teach them how to work through the frustration.”

According to Stephens, when students begin their journey at DSST, they want the answers given to them so they can memorize them and move on, but teachers at DSST know it’s important for students to learn how to find the answers themselves. By creating frustration on these small levels, teachers encourage skill building that results in real learning.

## Student Spotlight:



*Carlyn Michael (R) shares a laugh with Giraldo Salas-Gatan, a participant in the after-school program. Carlyn worked with Giraldo during her 2013 Service Learning trip to Ensenada, Mexico.*

Carlyn Michael arrived at DSST in the tenth grade, with minimal skills but a maximum desire to obtain the best education she could.

Carlyn is one of four children, all of whom are being raised by an incredibly dedicated mother who's continually underemployed. Her family went through rough times, but Carlyn came to school every day with her passion to learn and excel. Due to the support of teachers and peers and the opportunity that DSST provided, Carlyn's skills and confidence increased. She joined the girls' soccer and mock trial teams, and participated in the service-learning trip to Mexico.

Carlyn graduated this year and will attend Regis University in Denver. Her sister, Jubilee, will graduate from DSST in 2014.

All ninth graders at DSST take creative engineering, which requires empathy, ideation, and prototyping before arriving at a solution. Students begin to learn that they can solve any problem, in or out of school, with this approach. DSST aims to give students the proper intellectual tools to extract information, use it, and apply it in their lives.

Stephens, who has been at DSST since its inception, said, "Big History has been the spark for so many interdisciplinary initiatives in the tenth grade. We use what they learn in chemistry about the creation of a star as an analogy or metaphor for the creation of a city. In the beginning they're asking why we're talking about chemistry in social studies, but then they see the connection and understand that everything they study is connected. They find it hard at first, but once they start to get it, they really get it, and they start to make connections themselves—often ones their teachers didn't think of."



GettingSmart.com  
Deeperlearning4all.org

**DSST Stapleton High School**  
2000 Valenita Street  
Denver, CO 80238

[www.dsstpublicschools.org/campuses/  
dsst-stapleton-high-school/](http://www.dsstpublicschools.org/campuses/dsst-stapleton-high-school/)

# HIGH TECH MIDDLE CHULA VISTA

## Linking Hands and Minds Through Project-Based Learning

*We believe deeply in empowering each of our unique students to explore their world and take ownership of their learning.*

*Andrea Morton, humanities teacher*

### SCHOOL INFO:

**Location:** Chula Vista, CA

**Type:** Charter

**Focus:** Project-based, Hands-on Learning

**Network:** High Tech High

High Tech High is a network of schools spanning grades K-12 that prepares students for college and careers by providing a personalized hands-on approach to learning.

### BY THE NUMBERS:

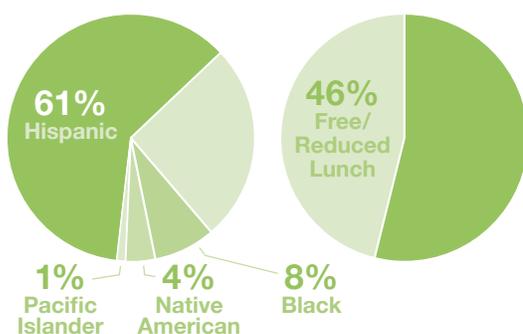
**Date Opened:** 2011

**Grades Served:** 6-8

**Enrollment:** 328

**Teachers:** 15

**Students Demographics:**



### What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

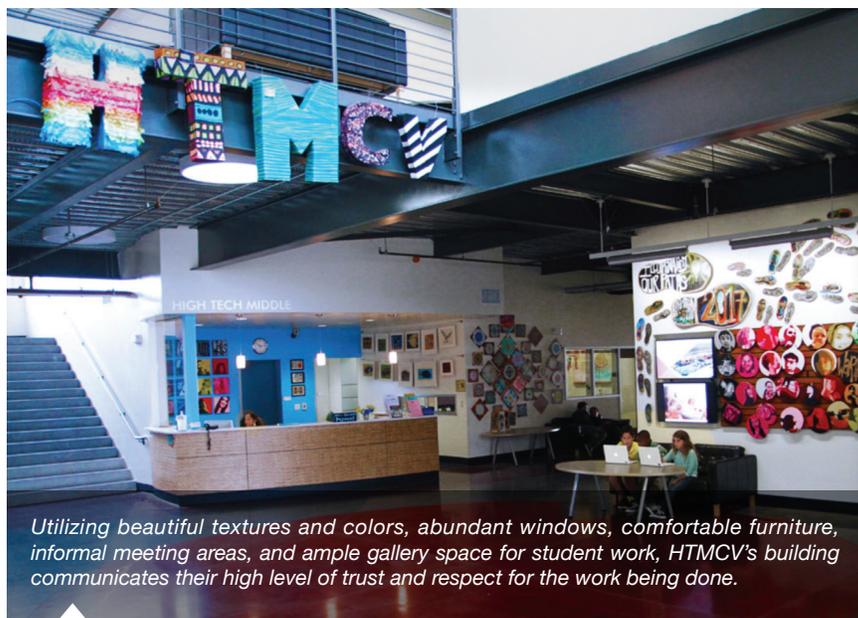
“All teaching and learning at High Tech Middle Chula Vista (HTMCV) is guided by the deep conviction that students learn more by directly experiencing and participating in the world around them,” said sixth grade humanities teacher Andrea Morton.

The curriculum, co-designed by teachers with student input, is based on three High Tech High Design Principles:

- a common intellectual mission;
- an adult world connection;
- and a personalized learner-centered approach.

As such, it is designed to harness student passion and inspire them to develop the curiosity, knowledge, skills, and ambition needed for successful adulthood.

With those goals in mind, students participate in Project-Based Learning experiences that engage them in the Deeper Learning activities by solving complex, open-ended problems. Morton noted that students often have the opportunity to work with local business professionals and other community members as they develop their critical thinking, critique, and presentation skills. In the process, they create beautiful, relevant work to share in the “real world.”



*Utilizing beautiful textures and colors, abundant windows, comfortable furniture, informal meeting areas, and ample gallery space for student work, HTMCV's building communicates their high level of trust and respect for the work being done.*

## Student Spotlight:



*Eliana smiles outside one of the hands-on classrooms at HTMCV.*

“I have never worked so hard,” said then-sixth grader Eliana Bentley about the play she wrote and directed to demonstrate her understanding of life in ancient Rome. “I really did put all my heart into it.”

Eliana is a bright and determined student, who is recovering from years of undiagnosed celiac disease, which caused severe challenges in her visual processing and auditory memory. Her mother noted that despite still feeling sick and tired much of the time; Eliana has thrived thanks to HTMCV’s hands-on personalized learning environment. She was able to learn in the modality that worked best for her and received targeted support from teachers. “She had been so discouraged by her previous experience that she had given up and formed a self-image of being an incapable outcast.” Her mother has also noted an exponentially increasing desire to learn and participate in school since Eliana came to HTMCV.

As Ms. Morton puts it, by being encouraged to tap into her inherent abilities, Eliana now leads her class as a writer and knows she has a powerful voice the world wants to hear.

## ENGAGING STUDENTS THROUGH PERSONALIZED AND PROJECT-BASED LEARNING

Students are strongly encouraged to take responsibility for their own education within a highly personalized, Project-Based Learning environment in which each individual is well known by his or her teachers and challenged to meet high, but attainable, expectations. This has fostered an environment where, with the support of teachers, students are able to uncover their interests and harness them to develop the curiosity, knowledge, skills, and ambition needed for a successful transition into adulthood.

Learning is also personalized by giving students “voice and choice” within project work, which allows them to explore their passions and interests. Students are given opportunities to explore subjects they are passionate about, while studying and following a rigorous process of evaluating the credibility of a source, conducting field interviews, and creating, implementing, and evaluating surveys. This research process allows students to develop an academic mindset paired with personal interests.

To meet the needs of the diverse student population at HTMCV, teachers constantly monitor student performance and quickly modify instructional strategies. If students don’t understand concepts or need extra help, teachers offer after-school tutoring as needed. “Because we are dedicated to providing a personalized environment for our students, we are constantly finding new ways to change or individualize how we teach. We aim to scaffold our projects and provide multiple entry points for all students, leading toward quality products and outcomes in which the content is fully understood.”

Teachers work collaboratively across content areas to develop projects that focus on collaboration as well as mastering the skills necessary for each subject. In all classrooms, inquiry-based study engages student interest and encourages the development of essential skills such as cooperation, collaboration, and effective communication.

Performance-based assessments are a major aspect of academic life at HTMCV. With that in mind, students work on purposeful and engaging projects and present their findings in such a way as to demonstrate their ability to apply what they have learned. These authentic projects task students with solving real world problems to create a deeper understanding of various concepts.

All of this work is assessed in multiple ways. Each fall, students facilitate a conversation in which they reflect on their educational progress. At the end of each semester, students lead formal Presentations of Learning (POLs) where they demonstrate their work to a panel of teachers, parents, peers, and community members. Through these POLs, students develop presentation skills while reflecting upon their learning and growth.

HTMCV, along with the eleven other HTH schools, strives to be a powerful community of learners, with adults learning alongside students. As part of this mission, HTH features a Graduate School of Education (GSE) embedded within its K-12 schools. At any given time, a majority of HTH teachers are involved in adult learning in some way: as graduate students, GSE faculty, interns, or mentors. In addition to pushing their own practice, adult learners at HTH model what it is to be a curious, intellectual, and reflective adult, which inspires students to do the same.



GettingSmart.com  
Deeperlearning4all.org

**High Tech Middle Chula Vista**  
1949 Discovery Falls Drive  
Chula Vista, CA 91915  
[www.hightechhigh.org/schools/HTMCV](http://www.hightechhigh.org/schools/HTMCV)

# IDEA COLLEGE PREP DONNA

Develop Leadership, Social, and Academic Skills

*Prepare students from underserved communities for success in college and citizenship.*

## SCHOOL INFO:

**Location:** Donna, TX

**Type:** Public Charter

**Focus/Network:** IDEA Public Schools

Beginning as an after-school program, Donna IDEA became a charter school in 2000. [IDEA Public Schools](#) is now a south Texas network of 15 schools that prepare students from underserved communities for success in college and citizenship.

## BY THE NUMBERS:

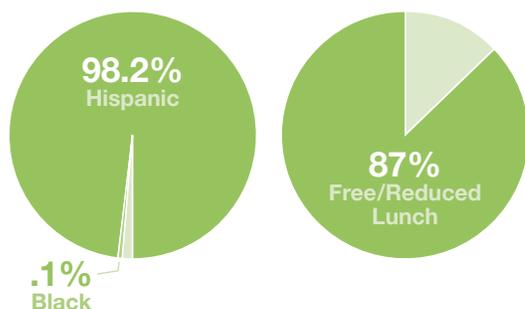
**Date Opened:** 2000

**Grades Served:** 6-12

**Enrollment:** 797

**Teachers:** 50

**Students Demographics:**



## What is Deeper Learning?

[Deeper Learning](#) teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

“The mission of [IDEA College Prep Donna](#), and [IDEA Public Schools](#) as a whole, is to prepare students from underserved communities for success in college and citizenship,” said Principal Christina Cavazos-Escamila. “We live out this mission by creating a positive learning environment for students and developing their leadership, social, and academic skills.”

IDEA Donna offers the [International Baccalaureate \(IB\)](#) Middle Years and Diploma Programmes in grades 6-12. Teachers determine individual learning goals for their students by evaluating where they are and comparing that to where they need to be in order to demonstrate content mastery. They spend a lot of time preparing students for IB courses in their areas of strength and rigorous courses in areas where they need growth and development.

In each class, students must master content and demonstrate critical thinking skills. Cavazos-Escamila said, “in history classes, students analyze different sources and demonstrate the skills of an historian at a high level—they do not simply memorize facts. In science, not only do students conduct lab experiments, they also design the experiments and evaluate their experiences.”

In addition, teachers use IB rubrics that set high expectations and to ensure consistency in their evaluation of student work. Teachers are then evaluated on how well they utilize those rubrics, establishing a standard of evaluation throughout the school.

CLOSING  
THE  
ACHIEVEMENT  
GAP

NO  
EXCUSES

WHATEVER  
it TAKES

100%  
EVERYDAY

SWEATING  
the small  
STUFF

TEAM  
& FAMILY

*The core values at IDEA Donna are clearly outlined for every student and staff member to understand and exemplify.*

## Student Spotlight:

For the past seven years, 100 percent of graduates of IDEA Donna have gone to college; many are the first in their families to do so. This requires extensive preparation. Starting in sixth grade, all students participate in the Road to College curriculum, which was developed in partnership with Uplift, another IB network in Dallas. It includes extended discussion about what is required for academic success and the special barriers faced by socio-economically disadvantaged students. Full-time college counselors help students research and apply to schools, navigate financial aid applications, and help students and their families through the departure process.

The college-going culture is reinforced by College Field Lessons, beginning in third grade. Through these College Field Lessons, IDEA schools take students to college/university campuses, historical landmarks, and museums across the country on excursions that last between a day and a week. While these are often students' first trips away from their families, by the time they are seniors they will have visited over 25 campuses and will be comfortable with the idea of going out on their own, handling the complex academic and social challenges of college, and taking charge of their educations and their futures.



*The 100 percent college-bound graduating class of 2013 celebrating their achievement.*

## TEACHER AND STUDENT SUCCESS IN A COLLABORATIVE ENVIRONMENT

Having a strong academic mindset is richly embedded in the school's culture. This is encouraged through rigorous coursework and celebration of academic achievement.

According to Cavazos-Escamila, "when students evaluate their own work, it enables them to take ownership of their own learning, understand their strengths, and identify areas to work on." One way the school's culture is reinforced is through the weekly recognition of students who analyze and provide rationale for their work, a great example of what a "thinker" looks like.

In all classes, students read and dissect college-level texts and synthesize the information into their own work. Different classes work together to analyze various topics, address complex problems, work independently and in groups, and communicate their understanding to their teachers and peers. For example, history, art and Spanish teachers work together on the Mexican Revolution, students analyze the revolution in comparison to others and conduct an in-depth historical analysis of its context, activities, and outcomes. They explore influences on Mexico today and apply their learning by projecting what the next several years there might look like. They also create original artwork depicting a specific viewpoint from the revolution. In all of these classes students consistently address complex problems, work both independently and in groups, and effectively communicate their understanding to their teachers and fellow students.

The collaborative work environment is another important aspect of IDEA Donna's culture. According to Cavazos-Escamila, "Students work collaboratively throughout the year and much of the work that they do requires peer feedback." They ask for feedback from their peers in all stages of the writing process. They also participate in group projects in science in which part of their evaluation rests on how they worked as a team. Students taking higher-level classes are paired with those in standard-level courses to provide feedback and offer assistance. This creates a collegial working environment in which each student uses his or her individual strengths to help others to succeed.



GettingSmart.com  
Deeperlearning4all.org

**IDEA College Preparatory Donna**  
401 S. First Street  
Donna, TX 78537  
[www.ideapublicschools.org/Domain/58](http://www.ideapublicschools.org/Domain/58)

# IMPACT ACADEMY OF ARTS & TECHNOLOGY

Know, Do, Reflect

*We are transforming the lives of our students – most of whom are from traditionally underserved communities – by making sure they are ready to succeed in college.*

*Gia Truong, Superintendent*

## SCHOOL INFO:

**Location:** Hayward, CA

**Type:** Public Charter

**Focus:** Arts & Technology

**Network:** Envision Education

At Envision's three small, urban public schools in the San Francisco Bay Area, students master academic content, apply that knowledge to real-world situations, and discuss and analyze how and what they are learning to promote self-direction.

## BY THE NUMBERS:

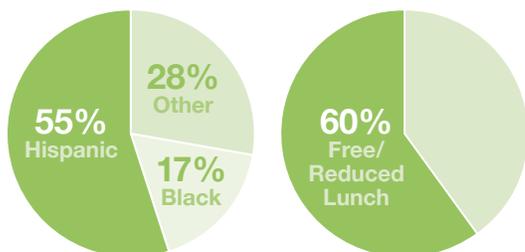
**Date Opened:** 2007

**Grades Served:** 9-12

**Enrollment:** 469

**Teachers:** 22

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

As part of Envision Education, Impact Academy is mission-oriented, and their mission is to prepare students for success in college, career, and life. One of the things Superintendent Gia Truong is most proud of is the high level of teacher dedication and individual attention to students, which gives each student a rich transformative education experience.

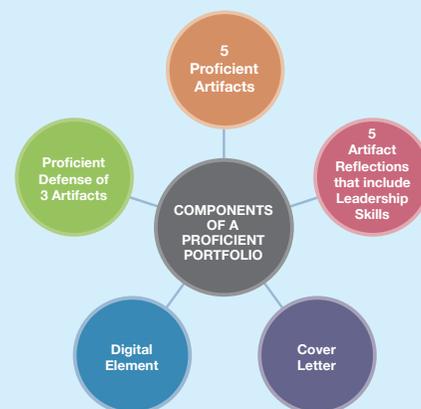
“We specifically target students who are the first generation to go to college in their families and then we focus on both skills and experience,” said Truong. “Some schools focus more on skills, some focus more on experience; we focus on both in order to make sure that our graduates are really college ready.”

The idea that students learn most effectively when the coursework is engaging and relevant to their lives is central to project-based learning. “Our students put their knowledge to work while tackling complex, real-life problems and questions. Throughout each project, they demonstrate mastery of academic content and essential skills in art, math, literature, science, and more. Many of these projects conclude with a public exhibition in which students present their work to their peers, teachers, and families,” Truong said. In fact, at the end of their senior year each student makes a “dissertation-style defense” to prove that the work they have done is sufficient to meet the core competencies required for graduation.

## Components of an Impact Portfolio:

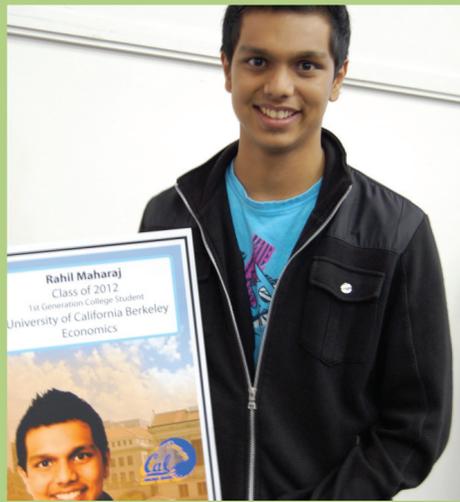
The requirements for a complete and proficient portfolio are as follows:

The portfolio includes a proficient artifact per competency (research, inquiry, creative expression, analysis) plus WLE (total = 5 artifacts).



1. Each artifact must come from a different subject area. For example, if a science artifact is used for research, then a social studies artifact must be used for Inquiry.
2. WLE cannot be the sole artifact for competency, it's in addition to the subject-specific artifact (although WLE will not be assessed using a research inquiry, creative expression or analysis rubric).
3. Each artifact is tied to at least one leadership skill and all leadership skills must be represented.

## Student Spotlight:



Today, Rahil is a student at UC Berkeley, majoring in engineering.

Rahil's family immigrated to the US when he was in 8<sup>th</sup> grade. At first, he struggled academically. He knew his parents had moved here to make college possible for him – and he wasn't sure he would make it. Coming to Impact was the key to turning things around for him. "I was given a chance to start over," he says. At Impact, he learned more than academic content. He also learned leadership skills: how to collaborate productively, think critically, communicate powerfully, and complete projects effectively.

For Rahil, Deeper Learning means going beyond the content, it means using personal experiences as well as knowledge from other sources to fully understand a subject. It means to internalize information, and be able to use it outside the classroom walls.

## CREATING ACADEMIC MINDSETS TO ENSURE SUCCESS IN COLLEGE AND CAREER

According to Superintendent Truong, the entire Impact Academy educational design is based on encouraging critical thinking and creative expression. "We focus on analysis, inquiry, creative expression, and research, and students have to demonstrate those skills in order to progress. As a result, our teachers must plan experiences for their students that demonstrate those skills."

In addition to the "dissertation-style defense" each senior completes prior to being cleared for graduation, all tenth graders must complete and defend a portfolio of their work to a panel of teachers at the end of the year. This demonstrates their readiness for 11<sup>th</sup> grade. "It is through these capstone activities that our students develop 21<sup>st</sup> century leadership skills such as productive collaboration, effective project management, clear communication, and critical thinking—all of which are essential for success in the real world," said Truong.

Through the portfolio project and panel presentations, students develop skills such as productive collaboration, effective project management, clear communication and critical thinking—all of which are key ingredients to creating informed and engaged citizens of the future; as well as the traits that today's business leaders look for in their employees.

Noting a strong culture of revision, Truong explained that students have to defend their work, and that they will not pass until they can prove mastery. The portfolio system strives for competency and requires students to continue to work and revise repeatedly so they learn to persist and to accept and use feedback.

This is all intended to help students understand how they learn best, discover who they are as students, and develop an academic mindset, all of which will help them succeed in college and beyond. "Students are encouraged to know, do, and reflect," said Truong. "The reflection piece is critical and Impact emphasizes the importance of combining knowledge and skills and building the ability to apply that to new situations and problems."

In eleventh and twelfth grade, all students participate in the Workplace Learning Experience (WLE). For three months, they work one day a week as an intern at a business, government agency, public agency, non-profit etc. within their local community. In order to secure a WLE, they must write and send out resumes and cover letters, then interview with potential mentors. "We encourage them to seek an internship in a field of interest, and the WLE helps many students identify their ideal career—or find out what they don't want!" Truong said. At the end of their internship, students present their experience in a public exhibition. "It's a powerful experience that equips students with job search practice, self-confidence, and first-hand exposure to a career field."

Educating urban students, most of whom will be the first in their families to complete high school and/or go to college, is "really, really complex," said Truong. She attributes much of their success in this difficult endeavor to the fact that Deeper Learning is at the core of what they do. "We are a skill-based institution, so students can access rich content and experience the Deeper Learning that comes from that type of experience in each content area."



GettingSmart.com  
Deeperlearning4all.org

**Impact Academy**  
2560 Darwin Street  
Hayward, CO 94545  
www.es-impact.org

# INTERNATIONAL SCHOOL OF THE AMERICAS

## Using Education to Improve Local and Global Communities

*To challenge all members of the school community to consistently reflect on and question what it means to be acting at one's fullest potential as a learner, leader and global citizen.*

### SCHOOL INFO:

**Location:** San Antonio, TX

**Type:** Magnet

**Focus:** International Education

**Network:** Asia Society

Asia Society's International Studies Schools Network (ISSN) is a national network of 34 design-driven public, charter and private schools focused on delivering an academic program that prepares students for college, work, and civic roles in a globalized environment.

### BY THE NUMBERS:

**Date Opened:** 1994

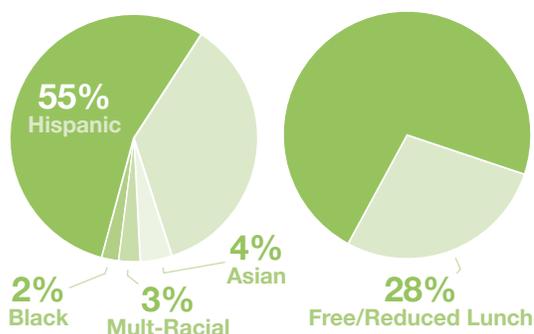
**Grades Served:** 9-12

**Enrollment:** 476

**Teachers:** 22.5

**Per Pupil:** \$5,487

**Students Demographics:**



### What is Deeper Learning?

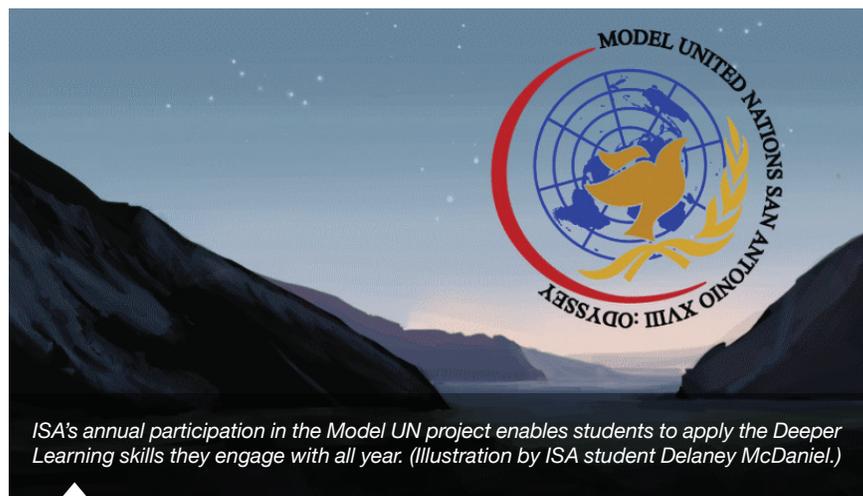
Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

“Relevance is a major tenet of the school,” said Kathy Bieser, director of the International School of the Americas (ISA). “Teachers utilize strong pedagogy, weaving state standards into meaningful disciplinary and interdisciplinary units whose authentic assessments link learning to the ‘real world’.” For example, students at ISA participate in public exhibitions of their work, judged by teachers and external evaluators, Model United Nations Simulations, and simulate town hall meetings about relevant topics.

Bieser emphasized the importance of imbuing students with global competence—the ability to investigate the world, recognize perspectives, communicate ideas, and take action, noting that they are expected to embrace lifelong learning in and out of the school setting. Students’ global competence is developed through a variety of programs in addition to the core curriculum such as career-exploration internships and travel experiences that integrate inquiry and reflection.

Engagement with and ownership of the school by students, staff, and families is essential to producing an empowered community that shapes the school’s identity and creates a relevant form of high school education.

The ISA’s pledge to graduate reflective life-long learners, individuals who approach each new experience mindful of previous learning, and open to the possibilities of new learning and growth, forms the foundation on which all learning takes place.



## Student Spotlight:



*Julio Resendiz with his college acceptance letter.*

Julio Resendiz, ISA class of 2013, lacked the confidence necessary to articulate his opinions in front of others when he first entered the school. However, over time, Julio began to take ownership of his education and enrolled in the hardest classes available at ISA. Julio also participated in leadership roles in clubs and truly maximized his high school experience.

He is the only son of a mom who works long hours in a school cafeteria and a dad who died suddenly in 2010. In elementary school, Julio decided he wanted to go to college to make his parents proud and ultimately buy them a home. His teachers, and Bieser, have no doubt he will keep his promise. They are certain that Julio will build on the confidence he gained at ISA and will go on to approach each new experience with his heart and mind open to the possibilities of new learning and growth.

## CREATING THOUGHTFUL, MEANINGFUL AND EDUCATIONAL EXPERIENCES

According to Bieser, the ISA curriculum is rigorous, thematic, interdisciplinary, authentic, collaborative and complex. She described major annual student projects:

- Two months into freshman year, students identify an international folktale, write and memorize a script based on that folktale, create sets and props, and perform their story for an elementary school class;
- Sophomores engage in a cross-disciplinary study of acculturation versus assimilation and create a publicity campaign in support of an indigenous group at risk of losing their land, culture, language, or heritage;
- After studying the American civil rights movement and traveling to Alabama, juniors create multimedia presentations identifying a modern injustice and proposing a solution;
- ISA students at all grade levels work with seniors to run the largest student-led Model United Nations simulation in the US, managing a budget of over \$30,000 and handling negotiations with hotels, caterers and the media for an event that brings in more than 1,000 guests over the course of three days.

In addition, Bieser noted that all students participate in week long, grade level travel experiences aligned with state and Advance Placement standards outside of Texas. Students also have the opportunity to travel outside of the country through partnerships with sister schools in China, Japan, South Korea, Sweden and Mexico to enrich their international awareness and global competency. “It’s not the same as simply going on a trip to another country, teachers at ISA want their students to have a thoughtful, meaningful, and educative experience.”

Another essential element of education at ISA is the Service Program. It is designed to ensure that students participate in 120 hours of meaningful, personally relevant service, and requires them to blog and write multiple reflections throughout the process.

ISA honors the power of reflection to deepen learning. With that in mind, the “growth mindset” that is so important at ISA is developed by “students continually assessing their learning strengths and challenges, writing reflectively, and creating annual and cumulative portfolios throughout their high school careers,” said Bieser.



GettingSmart.com  
Deeperlearning4all.org

**International School of the Americas**  
1400 Jackson-Keller Road  
San Antonio, TX 78213  
[www.neisd.net/isa/index.html](http://www.neisd.net/isa/index.html)

# KEARNY HIGH SCHOOL OF DIGITAL MEDIA & DESIGN

Teachers as Coaches, Not Repositories of Knowledge

“Our teachers share a common belief that all students are capable of meeting state academic performance standards.”

Principal Cheryl Hibbeln

## SCHOOL INFO:

**Location:** San Diego, CA

**Type:** District

**Focus:** Digital Media

**Network:** ConnectEd/Linked Learning

Linked Learning brings together rigorous academics, technical education and work-based learning to provide real-world experiences that allow students to develop relationships with teachers, community and business mentors, all focused around college and career success goals.

## BY THE NUMBERS:

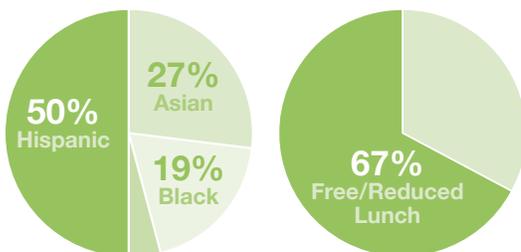
**Date Opened:** 1941/2004

**Grades Served:** 9-12

**Enrollment:** 447

**Teachers:** 19

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

In 2004, the staff of Kearny High School created the Kearny Educational Complex—four small autonomous high schools, each with a different industry theme: Digital Media and Design (DMD); International Business; Science, Connections and Technology; The Stanley E. Foster Construction Technology Academy.

These four schools have adopted a student-centered approach to teaching, teacher collaboration through common prep planning periods, and a focus on engagement through real world Project-Based Learning which have all contributed to an overall rise in student achievement.

The development of an academic mindset, the belief in one’s academic abilities and persistence in the face of obstacles, can be a significant challenge for Kearny’s students, many of whom come into high school at well below normal expectations for their grade level. Principal Cheryl Hibbeln and her staff tackle this issue through an intentional multi-grade approach, and common instructional expectations. “Our teachers share a common belief that all students are capable of meeting state academic performance standards, and they hold students accountable to those standards,” she said.

DMD emphasizes Debbie Meier’s book, *Habits of Mind*—significance, perspective, evidence, connection, supposition—combined with skill building and high expectations to help students develop an academic mindset.

## Students at DMD are Expected to Demonstrate:

- Critical thinking by comprehensively exploring issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
- Creative thinking by working in an imaginative way characterized by a high degree of innovation divergent thinking, and risk taking.
- A thorough understanding and use of the production process as they create high level media based projects and other complex assignments.
- Civic engagement by promoting the improvement of the quality of life in a community, through both political and non-political processes.
- Personal, cultural, and academic preparation for college and other postsecondary opportunities through the self-authorship of a personalized and appropriate four-year plan.

## Student Spotlight:



*As a student at Kearny High, Ashleigh Bugos, who graduated with the class of 2013, has “earned the respect of her teachers and fellow students,” said teacher Lisa McCall. “She works hard and will accomplish great things.”*

Sometimes student challenges extend beyond academic support. “Students must address the real-world and complex issues that face local and global communities,” Principal Hibbeln said.

According to math teacher Lisa McCall, Ashleigh Bugos is a student that has been applying those lessons in and out of the classroom. Financial challenges caused her family to move six times during the second half of her high school career, with one location requiring a three-hour bus trip to school each way. Currently, they live in a shelter. Yet Ashleigh continues to excel academically, serve as a school leader, and tutor students struggling with her best subject—math.

Ashleigh’s grit is indicative of her strong work ethic, but the support, sustained relationships, and high expectations at Kearny contribute to her continued success at applying her skills to help meet the challenges of her daily life.



GettingSmart.com  
Deeperlearning4all.org

**Kearny High School  
of Digital Media & Design**  
7651 Wellington Street  
San Diego, CA 92111  
www.sandi.net/kearnydm

## PROJECT-BASED LEARNING AT ITS BEST

The mission at DMD is to develop exemplary communication skills in students through authentic, media-based experiences in an environment of high academic and social expectations. In that pursuit, DMD emphasizes Project-Based Learning which encourages the transfer and application of knowledge obtained in the classroom to the interdisciplinary projects students must complete each year. These projects integrate elements from each of their core courses and “require students to make connections between multiple subjects and a real-world problem,” said Principal Hibbeln.

These projects, and the essential questions that underlie their creation and completion, help students address the complex issues that face both local and global communities. Each grade focuses on a different issue:

- **Freshmen:** Students research how human attitudes and choices affect sustainability and environmental issues in the local San Diego region and propose a “Plan for Change” to the San Diego City Council.
- **Sophomores:** Students investigate supporting sustainable global population growth through the creation of an informational public service announcement and a website that is assessed and approved by their client.
- **Juniors:** In the fall, students prepare print and media campaigns for the Surfrider Foundation, a group dedicated to the enjoyment and protection of the world’s oceans, waves and beaches. In the spring, students participate in the Green Students Youth Forum for the City of San Diego’s Environmental Department and San Diego Gas & Electric. During the project, students research the impact of their choices on issues of social and environmental justice, and meet with local officials to learn more about issues such as climate change, energy efficiency, and “green” career paths.

The completed work must be vetted and approved by the outside organization for which it was created—the client. This gives students real world experience as they communicate and collaborate with each other and other stakeholders in their effort to satisfy the client. And sometimes they have to go back and make changes or even start over, just as they would if they were being paid for their digital media and design expertise.

In addition to traditional forms of assessment such as exams, essays, presentations, lab reports, research papers, and the like, Hibbeln said students must use academic and industry standards to develop outcomes that demonstrate high level content mastery and serve the needs/demands of their client.

One of the school’s goals is the development of critical thinking skills. In support of that progress, students are given questions to grapple with in class. In addition, they are specifically taught analysis and evaluation skills. Their projects are designed to promote multiple perspectives, solutions, and outcomes, with all conclusions being supported by evidence. “All students must defend their competency in critical thinking at the end of each school year, and progress is measured against grade level rubrics,” said Hibbeln.

Students are also required to develop the strong interpersonal communications skills that are required in the DMD industry, which relies heavily on teamwork to create completed projects. “Although the digital media classes are the hub for this collaborative work, collaborative work on grade level projects takes place in all core classes as well. Math, science, English language arts, and social studies classes include student collaboration as a portion of each lesson. To ensure that students are supported in teams, teachers share a common prep to plan, assess, and implement coordinated and appropriate strategies,” Hibbeln said.

# METEAST HIGH SCHOOL

Educating Camden's Students One at a Time

“Schools should be guided by one clear principle; everything they do should be what’s best for students.”

## SCHOOL INFO:

**Location:** Camden, NJ

**Type:** District

**Focus:** Interest-Based Learning

**Network:** Big Picture Learning

Big Picture Learning supports a network of over 55 public schools which creates an individual learning program for each student, starting with student interests and needs while addressing essential learning goals.

MetEast High School focuses on academic rigor, personalized learning, interest-driven internships and training, graduation with a diploma, a post high school plan, and mastery of skills necessary for college and career success. These are attained by giving students the opportunity to learn in a place where they are known by their teachers, and people treat one another with respect. Personalized learning plans and internships connect students’ interests to their learning, resulting in self-directed thinkers and learners with the skills necessary to succeed in college and beyond.

Principal Timothy Jenkins said that student-directed learning emphasizes empirical reasoning, quantitative reasoning, communication, social reasoning, and personal qualities. As an example, Jenkins notes that traditionally, ninth graders read *Romeo and Juliet*. “We don’t make them read it here,” Jenkins, said. “We emphasize student interest, so they engage with a play and learn to understand dialogue, but it doesn’t have to be *Romeo and Juliet*.”

## BY THE NUMBERS:

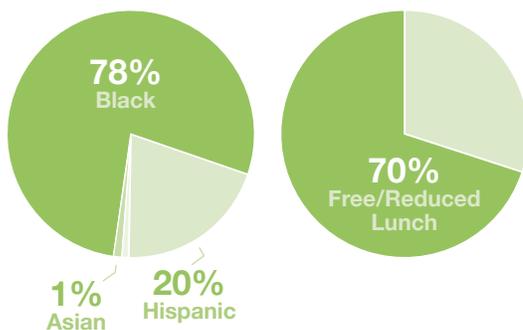
**Date Opened:** 2005

**Grades Served:** 9-12

**Enrollment:** 116

**Teachers:** 17

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.



## Student Spotlight:

A student came to Jenkins asking for a transfer because MetEast was too hard and the exhibitions were challenging. Jenkins knew this would be a mistake, so he scheduled a meeting with the student and her mother. During the meeting he phoned in a former student, a junior at Morehouse College, who encouraged her to stick with it. He explained that his ability to speak with adults, something he said he'd learned through those "challenging" exhibitions, had created new opportunities for him in college.

This powerful conversation with a MetEast alumnus helped change the young woman's mind. Both the student and her parents decided it was not a good decision to transfer and she went on to successfully complete her challenging exhibition.

## PERSONALIZED LEARNING AND HIGH EXPECTATIONS

At MetEast, students demonstrate a mastery of core academic content through quarterly exhibitions. "Every one of our students make an oral presentation that highlights everything they have accomplished, through the previous marking period, in each learning goal," Jenkins, said. Presentations are 30 minutes in ninth grade and eventually increase to 90 minutes in twelfth grade.

Jenkins described a past presentation on quantitative reasoning, explaining that the student began by saying they had focused on polynomials because it was a weakness of theirs, but after hard work and after-school tutoring they mastered the concept. The student then solved real problems in front of the class and passed around homework, as well as a test, for their peers to complete. This display demonstrated the student's newly gained proficiency with polynomials.

Students are responsible for their own learning. Jenkins referred to that phrase as the school's mantra, with the corollary being, "Students have to think things through." He said the major manifestation of these concepts is the Senior Thesis Project (STP), smaller versions of which are required each preceding year.

Each student prepares and presents a STP focused on something that both meets the students' interests and benefits the community. In one case, a student decided to counter Camden's negative image with a documentary full of positive things about her hometown. Another student wanted to address the issue of absentee fathers, so she organized a father-daughter dance at the business where she was interning.

Collaboration is the key to these accomplishments. Jenkins described the elective structure as a prime example of students working together. He explained that in addition to designing their own curriculum, students also request and design all of the electives, clubs, and teams in their school. Students are asked for the top three opportunities they want to explore and then Jenkins polls the staff for a qualified mentor. If there isn't a staff member qualified to instruct on a particular topic, or if only a small number of students show interest in an elective, students can create an independent project to learn what they want to learn. Even if they don't get their first choice, Jenkins says they will get one of their choices.

Jenkins noted that while all students at MetEast are expected to live up to higher expectations than many local schools, seniors have the most to accomplish. In addition to their STP, they must do a research paper, create an autobiography, write and deliver a valedictory speech, and complete extensive community service before graduation.



GettingSmart.com  
Deeperlearning4all.org

**MetEast High School**  
1656 Kaighn Avenue  
Camden, NJ 08103  
www.meteast.org

# METSA NEW TECH AT R. L. TURNER HIGH SCHOOL

## Combining Project-, Problem-, and Inquiry-Based Learning

*METSA enriches students' academic experience with a variety of active learning opportunities utilizing Project-Based Learning, field-based experiences, senior exhibitions, and internships.*

### SCHOOL INFO:

**Location:** Carrollton, TX

**Type:** District

**Focus:** STEM, Project-Based Learning

**Network:** New Tech Network

New Tech Network consists of 130 academically-rigorous schools that feature pervasive use of Project-Based Learning and technology, along with a positive and engaging school culture.

### BY THE NUMBERS:

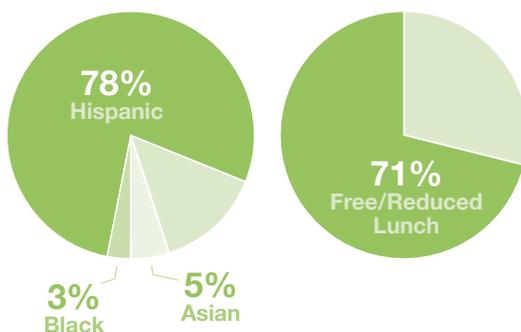
**Date Opened:** 2007

**Grades Served:** 9-12

**Enrollment:** 492

**Teachers:** 21

**Students Demographics:**



### What is Deeper Learning?

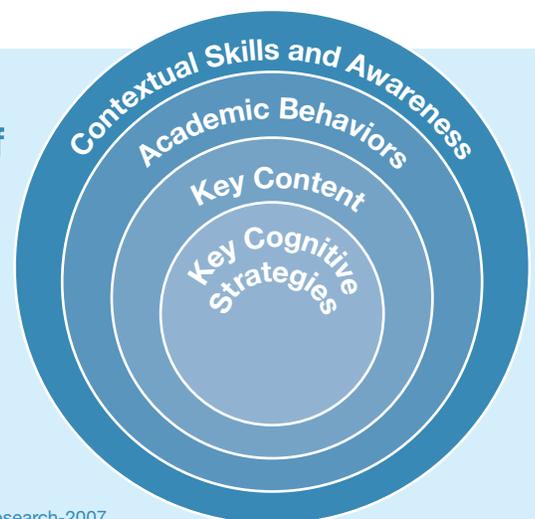
Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

“METSA enriches students' academic experience with a variety of active learning opportunities utilizing Project-Based Learning, field-based experiences, senior exhibitions, and internships,” said Krista Clark, former director of communications for New Tech Network (NTN). Graduates are prepared to be exemplary problem-solvers and thoughtful, engaged citizens who are poised to take leadership roles in the professional world.

At the heart of the METSA instructional approach is Project-Based Learning (PBL). This means that in order to master content, students must apply their studies to reality-based problems and collaborate regularly on projects that require critical thinking and communication. Multiple electives offer interaction with state-of-the-art technology to help students gain knowledge and skills in the application, design, production and assessment of products, services, and systems.

Students and teachers are given an enormous amount of ownership over the learning process and the school environment. Individually and in teams, students are encouraged to be accountable to each other, creating a level of responsibility similar to what they would find in a real-life work environment. To further their understanding of the professional world, students work with local business owners, professionals, college professors, and others who provide authentic challenges and realistic feedback.

### The Four Key Dimensions of College Readiness



Center for Educational Policy Research-2007

## Student Spotlight:



*Smiling and confident, METSA New Tech student, Margarita Herrera.*

A shy and wounded Margarita Herrera arrived for ninth grade burdened with personal tragedy and tasked with the care of her younger siblings. Yet Director Tehrani observed her maintaining a positive attitude. “She was pouring her heart and soul into her education, knowing it is the only way she can break the cycle.”

For her junior capstone project, Margarita designed and ran a weeklong engineering camp for incoming ninth graders, raising over \$1,000 for supplies, meals, tee shirts, and a bus for a college field trip. She recruited and trained 10 of her peers as counselors, and designed all the projects. “Her plans were impeccable and the execution superb. It was so refreshing to sit with her team every afternoon for their debriefing,” said Tehrani. “Margarita performed at a much higher level than I have seen in many entry-level teachers.”

## ENGAGING STUDENTS TO THINK CRITICALLY AND BE ACTIVE IN THEIR LEARNING

“Our mission ensures that students are strategically prepared for the rigor and self-discipline of college and the innovative demands of STEM (science, technology, engineering, mathematics) career pathways,” said school Director Mansoureh Tehrani. Participation in real-world projects and presentations, and defense of their learning to industry leaders and college professors, allow students to demonstrate their mastery of the scientific and technological competencies required for success in the 21<sup>st</sup> century’s knowledge-based economy.

In developing senior capstone service projects that meet these requirements, previous students have worked on projects such as creating a water filtration system. One of those projects was called Water is Basic, which is now being used in developing countries. Other projects include a hydroponic garden shared with the local community, a water fountain and garden for the Operation Kindness animal shelter, a rocketry camp for 100 middle school students, and an engineering camp for 250 middle school students.

The critical thinking skills required to make these projects successful are cultivated through regular engagement with interdisciplinary subject matter, synthesis of knowledge and skills, problem- and inquiry-based curriculum, and the type of activities that support the STEM educational environment such as robotics and rocketry among others.

Knowing these skills are essential and that they are tied directly to basics like reading and writing, Tehrani and her team are building on current learning outcomes regarding student literacy by enhancing the rigor of PBL units and tying them more closely to the relevant Common Core State Standards (CCSS).

In addition, every teacher understands that a student’s reading level is closely related to how well they do in mastering other subject matter and their success in life. “Improving Project-Based Learning strategies to support student literacy across the curriculum is a great way to improve overall student success,” Tehrani believes.

It is equally important that students are self-directed learners who can identify their own “need to knows,” manage projects, request workshops to build their knowledge and skills, set goals and timelines, and work both independently and in teams to accomplish their goals within the specific timelines. By combining all of these things with the latest in collaborative learning technology, Tehrani and her team of educators are creating self-directed learners.

After speaking to Clark, it is clear that NTN believes the skills, attributes and knowledge necessary for success in post-secondary education, careers and civic life are grounded in Deeper Learning. Students are working collaboratively, thinking critically, reasoning analytically, and communicating effectively, all of which result in Deeper Learning. To ensure Deeper Learning is achieved, NTN schools like METSA implement rigorous projects and embedded performance assessments to measure students learning. This is exemplified by Therani’s understanding that a student’s ability to think critically is built through exposure to performance tasks grounded in real-world scenarios. That same understanding is embedded in the ongoing work that Tehrani and her team regularly develop for their students.



GettingSmart.com  
Deeperlearning4all.org

**METSA New Tech at  
R. L. Turner High School**  
1600 S. Josey Lane  
Carrollton, TX 75006

[http://cfbportal.schoolwires.net/  
Page/17952](http://cfbportal.schoolwires.net/Page/17952)

# MINNESOTA NEW COUNTRY SCHOOL

All Learning Emanates from the Learner

*Our mission is to produce successful adults through personalized, Project-Based Learning.*

## SCHOOL INFO:

**Location:** Henderson, MN

**Type:** Charter

**Focus:** Project-Based Learning

**Network:** Edvisions Schools

EdVisions, a network of 40 small schools, promotes relevant and personalized learning environments that emphasize self-directed, Project-Based Learning that empowers students, parents, and teachers in a democratic learning community.

## BY THE NUMBERS:

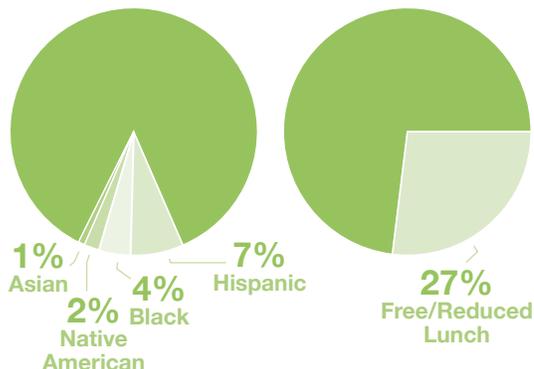
**Date Opened:** 1994

**Grades Served:** 6-12

**Enrollment:** 115

**Teachers:** 10

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

Minnesota New Country School (MNCS) is student-driven and project-based, an approach that includes regular exposure to collaboration, critical thinking and time management. “Students have opportunities to work on projects in small groups and therefore, designing and planning these projects together,” Director Dee Thomas, said.

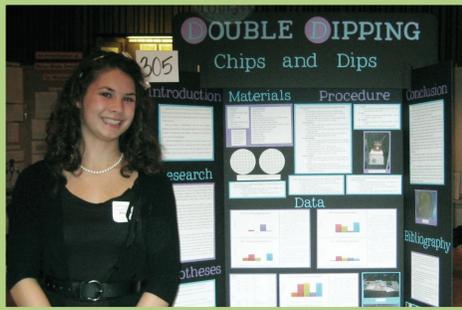
Advisory groups of about 18 students meet daily to discuss academic progress and school atmosphere, setting them up to take ownership of their education. “If they don’t take responsibility, nothing happens,” Thomas, said. “The constructivist nature of the learning environment has students learning on an as-needed basis, giving them the understanding that they can learn anything they need to learn, whenever they need to learn it.”

Students build responsibility through choice. For example, students use a highly scripted form to propose a project, and that proposal must be defended before two advisors. During the proposal process Thomas asks each student, “If you’re going to be spending between 25-100 hours on this project, how is it going to make you a better person in five years?”



In 1995, students at the then one year old MNCS discovered deformed frogs at a nearby pond and started a nationwide research project focused on finding the cause. Today, some of those former students are still doing research and the deformed frog remains the symbol of the school’s student-driven approach to education.

## Student Spotlight:



Minnesota New Country student, Emily Wood, explaining her sophomore project.

During her sophomore year, Emily Wood chose to research bacteria spread through double dipping. “It sounded like a fun project, and I wanted to test it for myself.” She learned to collect and culture bacteria safely and concluded that her hypothesis was supported by the results, in which 92 percent of the double-dipped petri dishes grew more bacteria in them compared to the control.

By coming up with a hypothesis, testing it, evaluating the results, and coming to her own conclusion, Emily applied what she had learned and demonstrated mastery of the scientific method, a skill and a way of thinking that will serve her during and after her formal schooling. This project served as a stepping stone and helped prepare Emily for her upcoming senior project.

## SUCCESS THROUGH A STUDENT DIRECTED, PERSONALIZED APPROACH

When talking about exposing young people to new experiences, Director Thomas’ enthusiasm is infectious. Although they’re in a small town, Thomas wants to make sure students have a global focus. “To take a bunch of farm boys to the opera for the first time is amazing. I took nine kids to Seattle. We got on the plane and I asked, ‘How many of you have ever flown before?’ Less than half.” Last year, students returned from a trip to the Mississippi delta, passionate about civil rights.

MNCS teachers help students create standards-aligned projects in areas of interest. Students demonstrate mastery of core academic content by creating a product and then defending what they have learned to a panel of teachers. Students often work with experts to develop their projects, requiring them to collaborate with adults outside of the school. This helps students learn to communicate with adults, effectively manage their time, and be responsible for their own work. Thomas said the biggest complaint from businesses is that kids are irresponsible. “They come in late, leave early, and don’t know how to manage their time. Not our kids. If you have learned to document all your time—which is an essential part of their projects—you have learned to be responsible with it.” This awareness and practice of time management, increases their chances for success in college and career.

“The mindset that leads to success is one where students can set reasonable goals for themselves, make plans to meet those goals, and then persist to achieve those goals,” said Thomas. “Students need autonomy, a sense of belongingness, and an appropriate goal orientation to make this happen.”

The other essential element is appropriate pressure from a caring adult, which Thomas said is often the difference in students succeeding or not, as well as the difference in just getting by or going in depth with learning. Closely connected to this concept is the idea that Deeper Learning is learning that touches the heart and emotions of a person and eventually affects a change of behavior. “This is the kind of learning that goes on regularly at MNCS, learning that touches the hearts of the students and becomes solidified in their minds,” Thomas stressed.



GettingSmart.com  
Deeperlearning4all.org

**Minnesota New Country School**  
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www.newcountryschool.com

# REYNOLDSBURG HIGH SCHOOL, eSTEM ACADEMY

## Creating a Challenging Experiential Learning Community

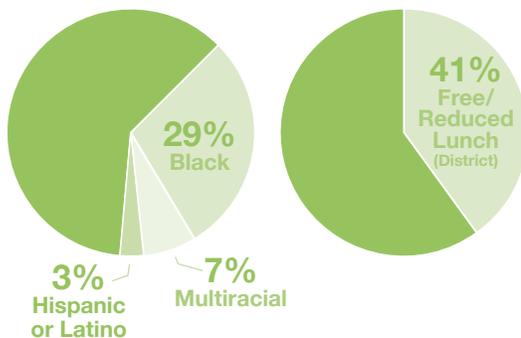
*It's the commencement of a whole new way of learning.  
It's about having these students engaged and having the skills to  
be college- and career-ready.*

### SCHOOL INFO:

**Location:** Reynoldsburg, OH  
**Type:** District  
**Focus:** STEM  
**District:** Reynoldsburg City Schools

### BY THE NUMBERS:

**Date Opened:** August 2010  
**Grades Served:** 9-12  
**Enrollment:** 560  
**Teachers:** 17  
**Students Demographics:**



Reynoldsburg City Schools is a diverse and highly challenging first-ring district east of Columbus that serves 6,500 students. The district earned an A+ on the state report card and met all 26 indicators, while spending about \$3,000 less per pupil than neighboring Columbus schools.

Superintendent Steve Dackin, a former principal in the district who worked for the state department of education, took the helm weeks before voters were to weigh in on a bond issue to build a second high school. He recast the facilities proposal as an opportunity to think differently about high school. After voters approved, he launched a comprehensive community engagement and design process, which included rewriting the plan from two traditional comprehensive high schools to a new high school facility with one school, two campuses, four academies, and a personalized pathway for every student. Five years later, Reynoldsburg High School eSTEM Academy exemplifies personalized, integrated, and problem-based learning, early college credit opportunities, and work and community connections.

Debbie Howard, Chief Innovation Officer of EDWorks, a school improvement group and district partner, notes, "Reynoldsburg is rapidly becoming a national demonstration site for innovation."

### What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.



An example of a Reynoldsburg classroom that keeps students engaged and ready to learn.

## Student Spotlight:

Recent graduate, Alex Hudak, signed up for eSTEM's design Capstone because of his interest in engineering. Initially, he was nervous about the personalized format and had reservations as to if it would work. As he was completing his high school career, he said it made sense. "I didn't think about the credits," he said. "I would tell them what I wanted to do and they provided the courses needed to accomplish it."

Hudak said each day varied based on the assignments and projects he was working on, which kept him and students alike, engaged and excited about learning. In an almost three-hour block, he could have a face-to-face Advanced Placement calculus lesson, complete assignments for an online technical-writing class, or pore over readings from his ethics teacher.

## PREPARING STUDENTS FOR COLLEGE AND CAREER

Marcy Raymond was a teacher and administrator in Reynoldsburg before founding Metro Early College High School, a leading STEM school and anchor of the Ohio STEM Learning Network. She returned to Reynoldsburg to help Dackin create the innovative two-campus, four-academy high school.

As leader of the eSTEM Academy, Raymond spots emerging opportunities like Massively Open Online Courses (MOOCs) and quickly incorporates them into curriculum. eSTEM students can choose from several college level courses including statistics, physics and computer science courses from online higher education provider, Udacity.

A student told the Columbus Education Commission they enjoyed the individual pacing, more instructional resources, and mastery-based progress that eSTEM offered. The student also appreciated the opportunity to go back and correct tests to better their scores and understanding of key concepts.

Each academy at Reynoldsburg High is developing capstone experiences designed to bridge high school coursework with college and job preparation. At eSTEM, students can sign up for one of three capstones focused on design, logistics or energy, environment, and the economy. Each triple-block course packs in college credit courses (MOOC or AP), internships and undergraduate-style research projects. The combination of small academies and big blocks makes it easier to incorporate new delivery technologies and customized learning experiences.

"Using state and local 'credit flex' policies, a single teacher facilitates as many as five or six credit hours in a three-hour block of time—breaking free from seat time requirements, but more importantly creating competency-based models of learning that are connected to the world of work," explained Lisa Duty of The Learning Accelerator.

"We want to make sure students understand the transition from high school to college and get work experience so they can make a choice for their next steps," Raymond, said. She has also helped to extend engaging eSTEM learning experiences to two of the district's elementary schools and a middle school, making it a K-12 option serving a third of the district's enrollment.



GettingSmart.com  
Deeperlearning4all.org

**Reynoldsburg High School,  
eSTEM Academy**  
8579 Summit Road  
Reynoldsburg, OH 43068  
www.reyn.org

# SPRINGFIELD RENAISSANCE SCHOOL

Work Hard. Be Nice. Get Smart.

*The accomplishments of Springfield Renaissance School's students prove that a child's zip code does not determine his or her destiny.*

## SCHOOL INFO:

**Location:** Springfield, MA

**Type:** Magnet

**Focus:** Applied- and Project-Based Learning

**Network:** Expeditionary Learning

Expeditionary Learning promotes high achievement in over 160 schools across the country by connecting student learning to the real world - using "learning expeditions" (extended projects) that join rigorous academics with citizenship and service to their community.

## BY THE NUMBERS:

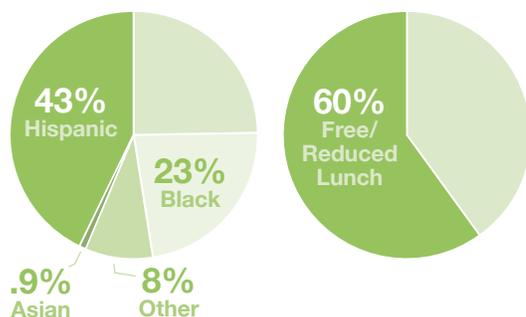
**Date Opened:** 2006

**Grades Served:** 6-12

**Enrollment:** 700

**Teachers:** 45

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

"From the minute students join Springfield Renaissance School (Renaissance), be that as rising sixth graders or transferring juniors, they are asked to accept our 'college-bound' aspiration for all students, and to commit to 'working hard, being nice, and getting smart,'" according to Principal Stephen Mahoney. Once they have made that commitment, they find that Renaissance is designed to provide a rigorous college-bound program that impels and supports students to use their minds well, care for themselves and others, and rise to the duties and challenges of citizenship.

"The entire curriculum is centered upon issues, problems, and challenges that either face our society now or have lessons applicable to modern times," said Mahoney. "Guiding questions are open-ended and push students to search for evidence, form and articulate opinions and positions, put together recommendations or conclusions, and then defend those results in a public setting."

The school has developed several codes of conduct that guide behavior for students and staff alike. These include Habits of Work, Character Traits, and Qualities of a Renaissance Learner. And, Mahoney says that all three are used within course assessments and as the driving targets for high-stakes assessments like passage portfolios, internships, senior talks, and student-led family conferences.

According to the Student and Family Handbook, which each student and their parent/guardian must review and sign at the start of the school year, "Good Habits of Work support a safe learning environment, develop self-discipline, and provide the foundation for a culture of achievement."

## The School-Wide Habits of Work are:

- I come to class ready to learn
- I actively and respectfully participate in class
- I assess and revise my own work
- I complete daily homework

## Student Spotlight:



*Some of the Springfield Renaissance family, with Dr. Mahoney front and center (arms crossed, black shirt, big smile).*

In the five years since the opening of the school, Renaissance students in grades 6-12 have conducted over 4,900 Student Led Family Conferences (SLFC), each of which brings family, peers, and teachers together to review a student's work. Students must present concrete evidence from all classes showcasing their strengths and weaknesses, illustrating their work habits, and illuminating evidence of their contributions to their own crew team and the overall school community. These thrice-yearly events involve Deeper Learning by requiring effective communication of their mastery of content, as well as forcing students to think critically in order to incorporate the feedback they receive into the development of new goals for the next SLFC.

All of this develops the academic mindset that is essential in order to achieve Deeper Learning and success in and after school. SLFCs encourage organization of both thoughts and outcomes, requiring students to reflect on and articulate their accomplishments and areas of challenge in a public venue. SLFCs also help students become the lead actors in the stories of their own education.



GettingSmart.com  
Deeperlearning4all.org

**Springfield Renaissance School**  
1170 Carew St.  
Springfield, MA 01104  
www.Spsrenaissance.com

## STUDENTS ACHIEVING EXPEDITIONARY EXCELLENCE

Courses and student assessments are organized by learning targets, narrative statements of skill, and content knowledge. Students must demonstrate mastery of these elements in order to receive course credit. The curriculum is organized around interdisciplinary expeditions and investigations.

Expeditionary Learning (EL) requires students to participate in big projects designed to contextualize what they are learning by addressing real-life challenges, often including field work, and allowing students eight to ten weeks to follow those issues wherever they lead.

Various forms of assessment include traditional tests, narrative reports (such as essays and research papers), lab reports, and project rubrics. "We prefer analysis of learning, as demonstrated through narrative statements of skill and content knowledge," said Mahoney. Students must demonstrate mastery of content in order to receive course credit.

A recent tenth grade learning expedition looked at bicycling and the ways the city of Renaissance might be different if it fostered a culture of biking rather than driving. The project incorporated aspects of the students' biology, U.S. history, and geometry course work. For example, students explored the relationships between shapes and design, which increased their understanding of how math in general, and geometry in particular, are used to design and engineer streets, buildings, sidewalks, ramps and bicycles, things they see and use all the time.

Students are directly connected to course concepts in geometry, biology, and history by working with legislators, engineers, and nonprofits. This kind of project makes learning relevant to the students and promotes understanding, contextualization, and the ability to replicate the process to address other questions.

EL schools start with an advisory period called "crew." Learning how to learn and taking responsibility for one's own education are at the heart of the school's crew experience, according to Mahoney. They are also the goals for the three annual student-led family conferences, its passage portfolios in eighth and tenth grade, and its senior talks.

Students work collaboratively every day in every class. Their movement through classes is organized around a workshop model. "Teacher collaboration is a key piece to the professional culture—students see adults collaborating on a daily basis," said Mahoney.

Some might assume that a school in which 70 percent of students qualify for free and/or reduced lunch would be unable to keep up with schools in wealthier areas, but Mahoney would disagree. According to him, it's the students themselves, and the team he has gathered to work with them, that led to Renaissance being recognized by the state and Magnet Schools of America. The school is now recognized as a "model of urban education excellence," and was named a Model School by EL.

"In every respect we are one of the top urban schools in the state and can compete with kids in wealthy suburban towns," said Mahoney. That said, Mahoney still refers to Renaissance as a work in progress, adding that he and the teachers are constantly evaluating everything they do. "It's in our DNA to keep trying to get better. Any school that is committed to Deeper Learning has to be deeply committed to being a learning organization."

# SUMMIT PUBLIC SCHOOLS: RAINIER & TAHOMA

Preparing Students for Success in College, Career and Life

*Students build 21<sup>st</sup> century college and career readiness skills by engaging in authentic Project-Based Learning, developing habits of success, and driving their own learning.*

## SCHOOL INFO:

**Location:** San Jose, CA

**Type:** Charter

**Focus:** Competency-Based

**Network:** Summit Public Schools

Summit Public Schools currently serves 1,600 students through six schools across the San Francisco Bay Area. Summit schools are personalized college preparatory 6-12 schools with an innovative-blended learning model.

## BY THE NUMBERS:

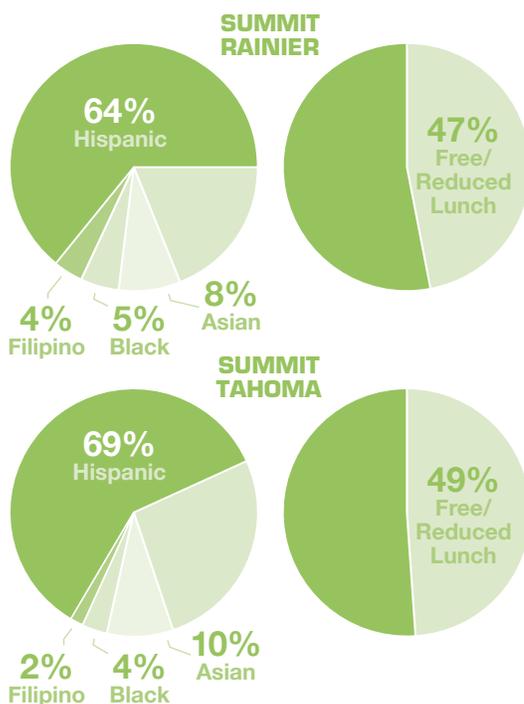
**Date Opened:** Fall 2011

**Grades Served:** 9-11 (expanding to 9-12)

**Enrollment:** 600 (800 at full enrollment)

**Teachers:** 32

**Student Demographics:**



Summit Public Schools, a charter management organization in the San Francisco Bay Area, is noted for its leadership in blended learning.

Led by CEO Diane Tavenner, Summit operates some of the best high schools in the country in terms of test scores, advanced courses, graduation rates, and college enrollment. They start with the belief that every student is capable of graduating ready for college. Their formula for achieving this includes high-performing teachers in every classroom, a diverse student population, a safe environment where every student is well known and attention towards developing habits of success. Summit nurtures courage, compassion, curiosity, integrity, respect and responsibility.

The Summit team has learned the lean startup mentality from Bay Area funders and partners. Each new school in the network represents a startup innovation opportunity. They iterate in short cycles, testing hypotheses with data.

In the fall of 2011, Summit Rainier and Tahoma opened to serve families in East San Jose and across Santa Clara County. They launched a personalized, blended math pilot with the intention of developing a school model where students are empowered to drive their learning, ensuring they are prepared for success in college, career and life.

In 2013, Summit's Next Generation school model launched across all of its schools, including Summit Rainier and Summit Tahoma.

"Technology allows us to rethink the way content learning occurs," explains Summit Rainier and Tahoma Executive Director David Richards. "Teachers should be spending their time coaching students on Deeper Learning and facilitating Project-Based Learning. Empowered Summit learners can access educational content 24/7, allowing the student to be at the center of accessing the information and frees up the teacher's time to facilitate critical thinking and delve deeper into the necessary cognitive skills."

The Summit model includes five features:

- Personalized Learning Time:** Students work towards their individual learning goals to develop and demonstrate content knowledge. Students learn at their own pace and in the ways they learn best, by utilizing a combination of playlists, peer-to-peer coaching and 1:1 tutoring. Playlists and content assessments are housed in Activate Instruction.

## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

- **Project Time:** Students spend the majority of their school day in Project Time, where they are engaged in authentic, Project-Based Learning experiences facilitated by Summit teachers and housed in a platform called ShowEvidence. Project Time is driven by high-quality, interdisciplinary Deeper Learning activities that call on students to think critically, develop important cognitive skills, work collaboratively, and apply the content they are learning in Personalized Learning Time.
- **Mentor Time:** All Summit students have a mentor who supports them in setting and meeting their learning and performance goals. Students lead weekly meetings with their mentor, where they review their personalized Learning Plan, track their academic progress and receive coaching on their self-directed learning skills.
- **Summit Reads:** Arguably one of the most important skills needed for college and career success, students have dedicated time each day to improve and strengthen their reading. This time is dedicated to developing literacy skills and practicing perseverance and other important Habits of Success. Summit uses an e-reading platform called Curriculet.
- **Community Time:** Students meet together each week in small, collaborative groups to engage in discussions around issues important to them. These Socratic dialogues underpin Summit's community's values of respect, responsibility, courage, compassion and integrity.

### DEVELOPING COLLEGE AND CAREER READY STUDENTS

“Students build 21<sup>st</sup> century college and career readiness skills by engaging in authentic Project-Based Learning, developing habits of success, and driving their own learning,” Richards said. “The teacher becomes the facilitator and the coach and the student becomes the driver of their own learning.”

Summit's college and career readiness system tracks the growth trajectory of knowledge, skills, and success habits against college goals. Each day, students start by logging into their Personalized Learning Plan (PLP), a student dashboard designed in-house by Summit. In the PLP, students set learning and personal growth goals, track progress, receive immediate feedback and are able to access all learning resources at any time. The PLP is designed to be a dynamic tool where students, families and teachers alike can offer support and coaching.

Activate Instruction helps teachers curate and customize playlists from the world of open content, as well as years of teacher created curriculum. Teachers can personalize playlists to offer students a diverse array of resources for differing learning styles.

Students at Summit Rainer and Summit Tahoma work collaboratively on projects as they solve complex issues that are meaningful to their lives and the world around them. “Students are not only engaging in real-life problem solving through working with rich and meaningful projects, but the core of learning has to be cognitive skill development,” Richards said.

Teachers and students are using ShowEvidence to capture rubric-based project feedback and build digital portfolios full of student artifacts and evidence of student growth in key cognitive skills.

## According to Executive Director David Richards:

“The high school model has to be turned upside down—no longer can the teacher disseminate content expertise. The 21<sup>st</sup> century teacher needs to guide and coach learners through cognitive skill development. This has to be a core structure of the school. Not only do the cognitive skills need to be prioritized and taught consistently across all subjects, but there needs to be a focus on developing students' habits of success.”

The 21<sup>st</sup> century demands that students can navigate complex problems. This is where the combination of cognitive skills and the habits of success are imperative. Students need feedback on their growth around the habits of success or the non-cognitive skills. Schools need to infuse the habits of success into the school culture—it needs to be part of the DNA of the school. Students need to understand that effective communication, collaborating with others, working on teams, and developing persistence are all habits of success they need to develop in order to be truly college and career ready.

## The Summit Persuasive Speech:

Summit students explore a topic of great interest to them, articulate a clear and coherent argument meant to persuade a diverse audience, and present this to both their school and their larger community to affect social change. Speeches often focus on current events. Students focus on topics that are of interest to them, giving them an opportunity to explore their passions.

For example, Guillermo Sanchez, a former ninth grade student at Summit Public School Tahoma in San Jose, was passionate about confronting bullying. He decided to write his persuasive speech to share both his personal experiences with bullying at his previous schools and ways that students could be proactive to stop bullying. His speech was so emotionally powerful that students in his class nominated Guillermo to present his speech in front of the entire school at the end of the year assembly. His peers gave him a standing ovation, and the whole experience was incredibly empowering for Guillermo.

A powerful culture of success permeates everything. The Summit team is researching which habits of success characteristics are most beneficial to their students. Teaching persistence through college is a top priority. They want students to “own their own learning and to be ready for college, that’s what kids are missing right now,” said Tavenner.

Summit students develop habits of success, including self-awareness, self-management, social awareness, interpersonal skills, decision-making, and responsible behaviors through meeting one-on-one with their mentor, participating in the school community and completing projects that engage and contribute to the school community. Moreover, students gain real-world experiences through a series of career preparation, college readiness, and cultural appreciation expeditions supported by partnerships with Bay Area organizations.

The Summit team believes that teacher and student mindset is critical. “There has to be a commitment and deep belief in a growth mindset — when parents, teachers, and students all believe that they can learn at a high level through a culture of high expectations and support, amazing things will happen,” said Richards. “They have to embrace the belief that anyone can learn.”

Hiring and developing standout teachers is a Summit priority. Demonstrated expertise across seven dimensions of the Summit continuum places teachers on one of four levels: basic, proficient, highly proficient, and expert.

The seven dimensions of the Summit continuum include:

- Assessment
- Content
- Curriculum
- Instruction
- Knowing Learners and Learning (SPED, ELL, etc.)
- Leadership
- Mentoring



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*Summit students use technology and work collaboratively on authentic projects.*

# SUSSEX ACADEMY

Explore, Experience, Excel

*To prepare students for future academic success by providing an accelerated, supportive academic environment within a small school setting.*

## SCHOOL INFO:

**Location:** Georgetown, DE

**Type:** Public Charter

**Focus:** Project-Based Accelerated Learning

**Network:** Expeditionary Learning

Expeditionary Learning promotes high achievement in over 160 schools across the country by connecting student learning to the real world - using "learning expeditions" (extended projects) that join rigorous academics with citizenship and service to their community.

## BY THE NUMBERS:

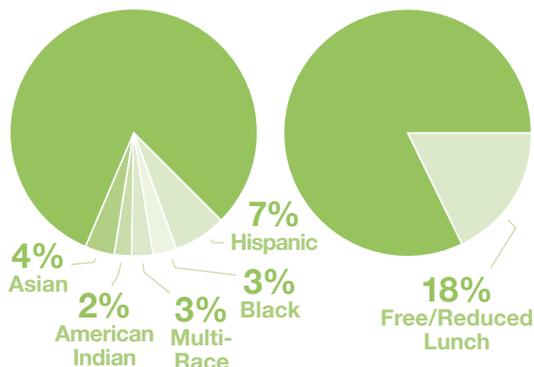
**Date Opened:** 2000

**Grades Served:** 6-9

**Enrollment:** 412

**Teachers:** 230

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

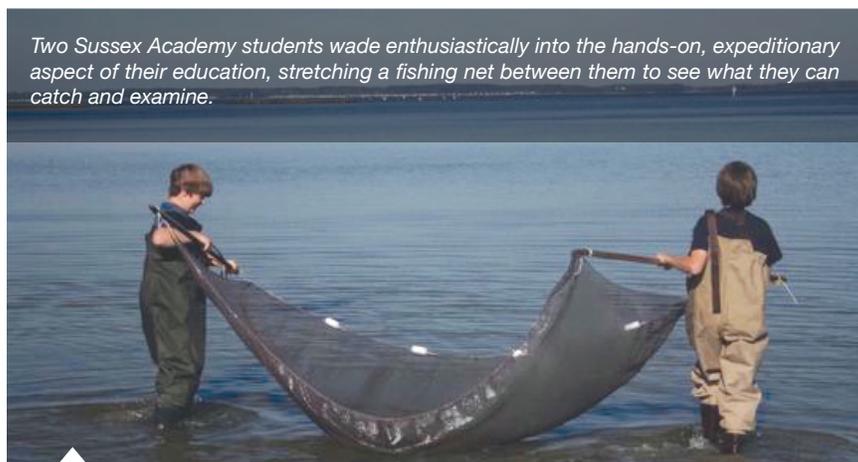
Head of School, Patricia Oliphant, said student participation in a program designed to prepare them for the technological and global-awareness demands and challenges of the 21<sup>st</sup> century is the backbone of the Sussex Academy college preparatory approach. "If students don't engage in the work, all the planning and exhortation in the world is not sufficient," said Oliphant.

With that in mind, Oliphant and her team attempt to maintain "active engagement." This means students have to be speaking, listening, reading, writing and thinking all the time. "This is not a 'sit and get' school; it is a school where the student is a worker and teacher is a coach."

To this end, every student is required to participate in the school's science fair and three annual "expeditions" which are based on authentic problems and require students to understand an issue, grapple with solutions proposed in the past, and develop their own ideas for future resolutions.

This attention to solving real-life social problems ties in well with Sussex Academy's emphasis on ethical conduct and service to others. In pursuit of those goals, Oliphant said all students must complete 10 hours of independent community service each year, in addition to the community service already built into their learning expeditions.

*Two Sussex Academy students wade enthusiastically into the hands-on, expeditionary aspect of their education, stretching a fishing net between them to see what they can catch and examine.*



## Student Spotlight:



*Heading into ninth grade, Cohen Davis is taking responsibility for his own learning in the hands-on educational environment at Sussex Academy.*

According to Andi Davis, her son Cohen came to Sussex Academy in sixth grade because she wanted to insure he was sufficiently challenged. “I’d rather he not get straight A’s and get something from what he’s doing,” she said. Heading into ninth grade, he continues to reap the benefits of that decision.

She credited the EL philosophy, which “makes everything more interesting, makes kids want to learn, and ties all the subjects together” with her son’s success. Specifically, Andi stressed the benefits of the portfolio requirement, which not only helps kids keep track of what they do but also makes them reflect on their work once it’s completed.

All teachers use some form of Interactive Notebook within their content areas, serving as a student’s collection of notes, completed handouts, research, articles, and the paper resources that the teacher provides in the class. Ultimately, the Interactive Notebook becomes the student’s textbook serving as a study guide, reference book, and reflection of that specific class. Cohen said that the Interactive Notebook requirement in some classes really helped him stay organized and enabled him to refer back to things he’d studied. “It’s not so much the keeping of the notebook, but that it makes you think about what you’re doing and what you could be doing better.”

## HOLD STUDENTS ACCOUNTABLE FOR THEIR OWN LEARNING

Oliphant is responsible for promoting and maintaining the culture of Deeper Learning that she says is integral to Sussex Academy. She maintains a shared leadership process and encourages extensive professional development for her staff, while constantly gathering data on student development and creating new programs to challenge the students. Sussex Academy is currently seeking authorization as an International Baccalaureate World School. The International Baccalaureate program coupled with the learning expeditions foster independent thinking and reflection, and encourage students’ personal growth and responsibility. The program also serves as another method of insuring that students are prepared to handle the standardized and other testing instruments they will come across in college.

In addition to traditional formative and summative assessments, all students are required to create and maintain a portfolio, which Oliphant says “serves as both a showcase of their work and a record of their growth.” Although the portfolio project is designed to document mastery of the Delaware Content Standards, each one is unique to the student who created it as a result of the choices made regarding artifacts and reflections and thus serves to chronicle student progress and assess individual proficiency.

The portfolio is an integral part of the Expeditionary Learning (EL) model, which focuses on literacy, reflection, and interdisciplinary, Project-Based Learning. Because they must be presented publicly to peers, parents, and the larger community, portfolios are also evidence of students’ written and oral communications skills.

Added to the collaborative work inherent in EL, these approaches provide multiple opportunities for students to experience individual and group success as they demonstrate mastery of content by applying what they have learned.

Oliphant says her teachers “always work with the ‘end in mind’ [and that] all lesson planning and execution keys in on ‘big ideas,’” allowing teachers to create lessons that encourage students’ to exercise their capacity for higher-order thinking. With that in mind, teachers require long-term individual and group projects that integrate research, writing, and presentation components.

“Academic achievement and personal character are key values of the school that are overtly taught,” Oliphant, said. These values are embedded in lessons, modeled by staff, and discussed in class. Furthermore, teachers at each grade level function as an interdisciplinary content area team, which meets frequently to discuss and plan for instruction. Teachers also participate in two team expeditions that are grade specific, and one school-wide expedition each year.

Another essential value at Sussex Academy is that students take responsibility for their own learning. To do this, students work with teachers to set their own goals, record their daily expectations and achievements, and maintain their own student data. Oliphant believes that these values work together to ensure a safe, respectful school environment, while encouraging personal growth and responsibility, environmental awareness, and social consciousness. All of which ties into the school’s vision of “cultivating students of distinction by providing them with the knowledge, skills, and values to become successful, productive citizens.”



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# THE ODYSSEY SCHOOL

We Are Crew, Not Passengers

*At Odyssey, learning is active, learning is challenging, learning is meaningful, learning is public, and learning is collaborative.*

*Amy Anderson, founder and parent*

## SCHOOL INFO:

**Location:** Denver, CO

**Type:** Charter

**Focus:** Applied- and Project-Based Learning

**Network:** Expeditionary Learning

Expeditionary Learning promotes high achievement in over 160 schools across the country by connecting student learning to the real world - using "learning expeditions" (extended projects) that join rigorous academics with citizenship and service to their community.

## BY THE NUMBERS:

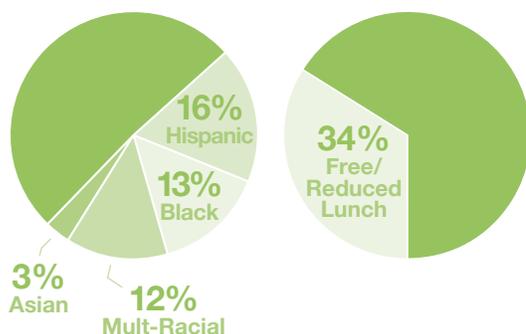
**Date Opened:** 1998

**Grades Served:** K-8

**Enrollment:** 234

**Teachers:** 16

**Students Demographics:**



## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

Executive Director Marcia Fulton describes The Odyssey School as a dynamic Expeditionary Learning community dedicated to fostering each child's unique potential and spirit of adventure through exemplary standards of character, intellectual achievement, and social responsibility.

The school was founded on the philosophy that children learn best through personal, direct experiences designed to take advantage of their natural curiosity about the world. Fulton explained that Expeditionary Learning harnesses children's natural passion to learn and helps them develop the curiosity, knowledge, skills, and personal qualities they need for a successful adulthood.

Teachers at Odyssey frame all lessons with learning targets that students unpack to ensure that they understand the learning targets for the day, the project, and the unit. This means students are always clear about their learning targets and what they must do. Learning often takes place in groups to encourage collaboration, problem solving, working with multiple perspectives, and forming and articulating individual opinions.

These learning targets also align with student assessment. "We use student-engaged assessment practices to drive our approach because it builds student ownership of learning, focuses students on reaching standards-based learning targets, and drives achievement," said Fulton. Students continually assess and improve the quality of their work through the use of models, reflection, critique, rubrics and interaction with community-based experts.

## Odyssey's Habits of a Learner:

Documented with a section in a passage portfolio using academic, art studio, physical education, and adventure work.

### Revision:

I can use critical feedback to improve my work.

### Responsibility:

I can begin to advocate for myself. I can maintain focus in class. I can complete quality work on time.

### Inquiry:

I can use the practices, tools and skills of an academic discipline to investigate, evaluate, form and test theories. I use those skills to understand specific situations and make sense of big ideas in that discipline.

### Perspective Taking:

I can consider multiple perspectives and their implications in terms of justice, freedom, and human rights.

### Service and Stewardship:

I am crew. I can do things to care for my environment and my community. I make connections between my actions and the global community.

### Collaboration and Leadership:

I can engage positively with others to learn things and create work that is larger and deeper than I could create on my own.

## Student Spotlight:



*Odyssey fourth grader Ariella Nadav is confident she will master math in fifth grade and beyond.*

Fourth grader Ariella Nadav didn't see herself as a mathematician, or successful in math at all. In fact, she knew only four percent of the math targets for her grade.

Slowly, through the consistent use of an online math program, a lot of hard work, and the support of family, teachers, and peers, Ariella began filling in

the math concepts she had missed in third grade. This blend of immediate feedback loops, getting instruction just when she needed it, and practice made the difference. Ariella also decided to shift her mindset about what she believed she was able to achieve. Once that was accomplished, she was able to move into grade-level material. "It was fun when I found out that I could do what other kids could do in math. It made me feel good about myself."

By the end of the school year, Ariella had mastered over 70 percent of the fourth grade standards and no longer sees herself as a poor mathematician. "She is ready to enter fifth grade as a strong, capable math student," reports Principal Fulton.

"It didn't change my mind about math," said Ariella. "But it made me happier, and now I can understand more and not feel bad."

## ENGAGING STUDENTS THROUGH STRATEGIC, PURPOSE DRIVEN, EXPEDITIONARY LEARNING

Amy Anderson, senior director at the [Donnell-Kay Foundation](#), and also one of Odyssey's founders, a former board member, and a current parent, said, "Odyssey's curriculum stresses hands-on learning, with students training in real-world situations, because when students learn with purpose and relevancy, they achieve on all levels."

Odyssey follows the thoughtful Expeditionary Learning school design principles:

- Primacy of self-discovery;
- Having of wonderful ideas;
- Responsibility for learning;
- Empathy and caring;
- Success and failure;
- Collaboration and competition;
- Diversity and inclusion;
- The natural world;
- Solitude and reflection; and
- Service and compassion.

Fulton said there has been a conscious shift to the use of technology and blended learning in strategic ways that serve to differentiate and personalize learning. Examining student work and analyzing disaggregated assessment data helps teachers identify and address gaps in achievement. It's working—Odyssey has been named a mentor school by the Expeditionary Learning network, a status that Fulton and Anderson cite with pride.

The expeditions that are central to Expeditionary Learning are developed using backward planning from guiding questions that require critical thinking. "We are careful to build knowledge so that students need to do something with that knowledge – apply, analyze, synthesize, create," said Fulton.

Expeditions go in depth on important subjects and topics. Students are required to complete significant research and writing. In order to complete their work, they must address multiple perspectives and form their own opinions regarding politically charged topics such as social progress, access for the disabled, pollution and waste disposal, and educational equity.

Odyssey students build math skills using adaptive software such as [ALEKS](#), and have access to instructional videos from [Khan Academy](#) for additional support in helping monitor their own progress against grade-level math targets. In addition to teacher support, Anderson said, "students use each other as resources. It is simply how kids approach all things – together."

"This is truly a special school," said Anderson. "My son graduated from Odyssey last year and my daughter is currently in the sixth grade. I visit a lot of schools, and I rarely see a school that has anything close to what Odyssey offers."



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# WALTER BRACKEN STEAM ACADEMY

## Preparing Students Through Investigative Experiences

*Our school vision is that all Bracken students maintain high academic and behavioral standards in the pursuit of continued growth and success in magnet programs.*

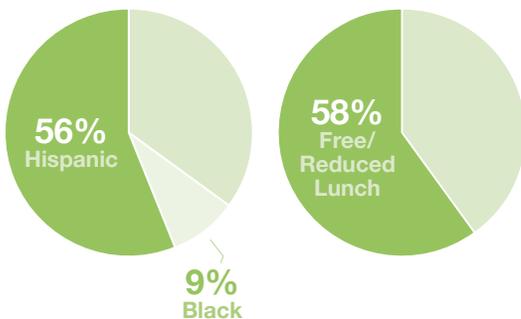
*Katie Decker, Principal*

### SCHOOL INFO:

**Location:** Las Vegas, NV  
**Type:** Public Magnet  
**Focus:** STEAM  
**District:** Clark County

### BY THE NUMBERS:

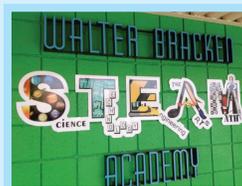
**Date Opened:** 1961  
**Grades Served:** PK-5  
**Enrollment:** 553  
**Teachers:** 32  
**Students Demographics:**



Walter Bracken STEAM Academy prepares students for the future by improving academic achievement through investigative experiences. All students use iPads during the instructional day allowing for individualized learning while infusing technology into classroom projects. Full Option Science kits, which create hands-on experiences, supplemented by lab lessons and field trips, are the foundation for the science curriculum. Engineering is Elementary curriculum kits come from the Boston Museum of Science, and all staff members integrate engineering into their classrooms.

The arts are integrated into the curriculum through a partnership with the new Smith Performing Arts Center, the Artsbridge program with the University of Nevada Las Vegas (UNLV), and having artists visit and co-teach lessons. With these types of projects, support from experts connected through community partnerships, and permeating classrooms with technology, learning at Bracken moves far beyond reading information from a textbook and filling out worksheets.

Bracken is one of six elementary magnet schools in Clark County and was named a Magnet School of Distinction by Magnet Schools of America that also named Principal Katie Decker the Principal of the Year. The 53-year-old elementary facility in a lower income Las Vegas neighborhood has been rejuvenated by murals, raised planting beds, trees, a tortoise park and a mini-amphitheater.



As there is no more complex problem than personal finance, Bracken devotes part of their curriculum to financial literacy, by teaching students how to manage their personal finances, a task that students often find to be complicated.

“The entire school participates in Junior Achievement Day for financial literacy lessons. We have a new school ‘Piggy Bank’ that opened last year and provides all students with their own savings account. Students make weekly deposits at the bank run by local volunteers,” says Decker. By saving money in a school account, students move far beyond learning how to add and subtract money denominations. They prepare to manage their personal finances successfully in the future.

## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

## TAKING EDUCATION OUTSIDE THE CLASSROOM

At Bracken, students are not just learning the rich STEAM-infused curriculum (science, technology, engineering, arts, and math), they are learning the lifelong habits of passionate, community-minded, responsible citizens. Students are encouraged to be curious and innovative, and to back-up their ideas with solid research.

With a challenging curriculum based on the [Common Core State Standards](#), grade-level teams of teachers continuously monitor student data, resulting in weekly adjustments to instruction. Each trimester, students are assessed in math computation, basic math skills, reading comprehension and reading fluency. Assessments drive individual learning plans in each subject. The Bracken team uses a variety of measures to determine mastery of content. Grade-level teams assemble a variety of [instructional components](#) and often use [Edmodo](#), an application that allows teachers and students to connect virtually, to communicate and collaborate on assignments.

### Parent Quotes:

“I have two children that both attended Walter Bracken this year and I can attest to the great opportunities the school has to offer. My children are excited and proud to be a part of this school, as am I. We could have sent them to any private school in the valley, but feel like we won the lottery (actually, we did!) by getting chosen to go to school here. We travel 20-25 minutes each way to get them there and back and know that it is well worth it. Go Bracken!”  
- Parent

“As a parent of two former students, I can say from experience, it was a much needed building block into turning my students into achievers. We joked all the time about going to the fun school. We firmly believe because they attended Bracken and enjoyed learning there, that it’s the reason they continue to be successful in the schools they attend now. I loved it so much as a parent that I decided to stay as an employee, so I could help keep the ‘fun’ there for other students.” - Parent

Student choice is a big part of Deeper Learning, and Bracken’s program. Reading Explorations gives students the opportunity to choose their reading series. Bracken staff created this program allowing students to read an entire series of books at a time. Each staff member, including support staff, houses different series of books that are advertised on the school’s content rich website. All students have to do is go to the staff member who has the book series that they want to read. They also choose math, engineering and technology-exploration classes, which are developed with input from student and parent surveys. Some class titles include: Grossology, Fizz Factor, Superball Science and Bubble Gum Factory. Several competitions are available for student participation, ranging from The Geography Bee to Bridge Building and Math Matters.

At every grade level, students participate in a minimum of three field trips each year, correlating with the appropriate science curriculum. For example, first graders travel to the Springs Preserve to observe local habitats and fourth graders spend three days at SeaWorld Adventure Camp in San Diego.

In school, lab lessons engage students in learning the content standards in an innovative and active way. Experts from the community provide information and assistance as students are immersed in real-world applications. For example, members of the [Tortoise Group of Las Vegas](#) teach fourth grade students to conduct field research using real desert tortoise habitats. The school has gardens for vegetables, flowers and herbs, plus a large desert garden. Each grade level has a different area to plant, weed, maintain and harvest, and they are working to organize a Farmer’s Market to sell what they have grown. Local chefs provide cooking demonstrations with some of their harvested fruits and vegetables. These experiences produce students who are completely capable of taking their learning skills outside the classroom and not only contributing their knowledge, but also assimilating new skills from the real world.

There is no status quo at Bracken – they are constantly modifying or reinventing their practices. When Katie Decker was appointed principal in 2001, Bracken was one of the lowest performing schools in the district. “Choosing a theme and a passion, and finding out what kids like and teaching them based on their passion will work,” Decker believed. Her belief transformed Bracken into an award-winning program that is ranked among the top five percent of all schools in the Clark County District and state. The school was named a High Performing National Blue Ribbon School for 2013.



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<http://schools.ccsd.net/bracken>

# WYANDOTTE HIGH SCHOOL

Pride Through Excellence. Pride Through Tradition.

*To educate, empower, and encourage all learners, that they may create a better tomorrow for themselves and our community.*

## SCHOOL INFO:

**Location:** Kansas City, KS

**Type:** Public

**Focus/Network:** PREP-KC

## BY THE NUMBERS:

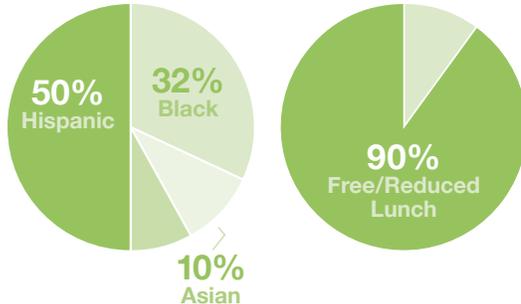
**Date Opened:** 1928

**Grades Served:** 9-12

**Enrollment:** 1460

**Teachers:** 93

**Students Demographics:**



At Wyandotte High School in Kansas City, Kansas, students are encouraged to be ready—which Principal Mary Stewart defines as confident and competent—for whatever choices they make next in their lives. Wyandotte works with local professionals to provide authentic, real-world educational experiences for its students.

Like other Kansas City high schools, Wyandotte benefits from PREP-KC, an organization dedicated to improving the education of Kansas City’s urban students by providing resources to prepare all students for college and careers. PREP-KC was formed in 2005 to fast-track the improvement of Kansas City schools by requiring a more rigorous math curriculum, providing the opportunity for students to earn college credit while in high school and offering career-readiness experiences to prepare students for future employment opportunities.

In addition to traditional proof of content mastery, Stewart and her staff encourage self-analysis and criticism. For example, a Wyandotte teacher who was working on ACT prep asked her students how they felt about their ACT practice test. She wanted to know what they thought worked and what didn’t in terms of their approach to the exam. She asked them how it felt when a reading passage was boring and what they could do next time to power through and present their best possible selves on the test.

## What is Deeper Learning?

Deeper Learning teaches students to master core academic content, think critically, solve complex problems, work collaboratively, communicate effectively, direct their own learning, and develop an academic mindset.

## Wyandotte Literacy Student Expectations:

1. **Use literacy strategies** in class on a daily basis.
2. **Reflect** on your use of the strategies and teacher feedback to continually improve.
3. **Ask for help** with literacy when you need it.
4. **Hold yourself accountable** for engagement in developing your own literacy.
5. **Understand and discuss** the importance of literacy in life.

## Student Spotlight:



*Wyandotte freshmen, deep in thought, during Career Jumping on the first day of school in August 2013.*

Susan Wally, CEO of PREP-KC, and Principal Stewart have been bringing professionals from a wide range of careers into the school for several years to speak with students. In September 2012, Wally said they combined those disparate visits into a wall-to-wall career-focused event, called Career Jumping, for ninth graders.

On the first day of school, almost 400 students armed with interview questions about education, personal interests, and daily work responsibilities and rewards met with nearly 100 professionals in a 90-minute speed-dating-style marathon.

Many of the students would be the first in their family to attend college or even graduate from high school. Wally said this experience helped them understand that high school isn't the "end game" and that decisions made there would reverberate through their futures.

The freshmen came away saying, "I learned the importance of staying focused in school and going to college," and "I am now going to pay more attention in math." They were impressed that strangers "came and took time to tell us about their jobs and what it took to get there." And they learned that education is needed in everything to be successful. One student said they made new plans based on that exercise, stating "I will do my best in school so I can achieve my goals in life."

What a wonderful way to begin high school! However, that is not the end of the student-community connection. During the school year, PREP-KC will call upon their database of 223 companies, which have all indicated a willingness to talk to students, organize worksite visits, customize campus visits, and help with FAFSA-completion and college application initiatives.

## HOLDING STUDENTS ACCOUNTABLE FOR ACADEMIC ACHIEVEMENT

Wyandotte is organized into eight small learning communities: Business Academy, Health Careers, Hospitality, Global Engineering and Technology, Performing Arts, Visual Arts and Technologies, Foundations of Applied Skills (carpentry and computer-aided design), and Public Service (teaching and law enforcement). Each has a maximum of 200 students who are focusing their learning projects, class collaborations, and work examples on areas they are inherently interested in pursuing.

Students use these small, family-like communities to develop their academic mindsets and take responsibility for their own learning. Principal Mary Stewart believes strongly in this approach, saying her students "deserve to graduate, ready to make the next choice."

"Taking responsibility for their own learning starts the minute they walk in here," said Stewart. In addition to having access to all their own performance data, they meet weekly with an advisor for a minimum of 90 minutes to talk about what that data means. Those advisors stay with them throughout their tenure at Wyandotte, so they get to know and trust each other well enough to form a strong relationship. Those relationships are important when it comes time for honest conversations that ensure students understand their strengths, where they need help, and how to access the assistance they might need to improve.

Serving a large number of students who have come from refugee camps in such countries as Nepal and Burma, and a growing number of migrant students, Wyandotte staff work to learn more about the needs of their student's families outside of school and partner with social services and other networks to support them. The staff at Wyandotte understands that their role is more than teaching content. In many cases, it is about supporting students and families so that they are emotionally ready to learn. In some cases, students are entering a completely new type of educational system, which means Wyandotte staff must transition students and families to those new learning demands without overlooking the obstacles.

The advisory system, known as the Family Advocate System, is one way that the school provides assistance in those areas while working with families to help them navigate high school with their child and prepare for the next step, whether that is college, trade or vocational school, or work.

Currently Stewart and her staff are working on a literacy priority project designed to ensure their students become innovative, creative, critical thinkers, so their voices are heard by the world. "It is the civil right of every student to be literate," she said, adding that this is especially important for her students because, "the voices of students of poverty are not always heard. They have to be just that more literate, just that more articulate in order to be heard. This is the major focus of everything we do, because we want them to leave here and be able to hold jobs that satisfy their passions and have the life they choose, not one that is forced upon them."



GettingSmart.com  
Deeperlearning4all.org

**Wyandotte High School**  
2501 Minnesota Avenue  
Kansas City, KS 66102  
[www.wyandottehighschoolbulldogs.com](http://www.wyandottehighschoolbulldogs.com)

# APPENDIX B:

## THE HEWLETT FOUNDATION DEEPER LEARNING NETWORKS

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ASIA SOCIETY  
BIG PICTURE LEARNING  
Connected/LINKED LEARNING  
EDVISIONS SCHOOLS  
ENVISION EDUCATION  
EXPEDITIONARY LEARNING  
HIGH TECH HIGH  
INTERNATIONALS NETWORK  
FOR PUBLIC SCHOOLS  
NEW TECH NETWORK  
NEW VISIONS FOR  
PUBLIC SCHOOLS

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

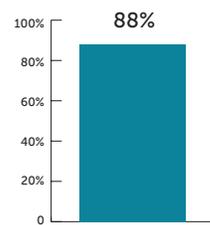
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

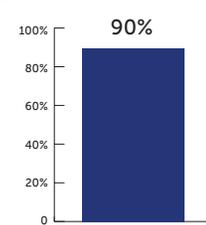
Asia Society’s International Studies Schools Network (ISSN) is a national network of design-driven public, charter and private schools committed to developing college-ready, globally competent graduates. The ISSN works with school communities to prepare students for work and civic roles in a globalized environment, where success increasingly requires deeper learning skills such as collaboration, critical thinking and teamwork. The ISSN has worked particularly hard to overcome chronic poor performance among low-income and minority students.

## ASIA SOCIETY GRADUATES ARE COLLEGE-BOUND

### Graduation rate



### College acceptance



## AN EMPHASIS ON GLOBAL COMPETENCY

Students learn to communicate and collaborate across cultures through an academically rigorous, globally-focused curriculum where students learn through experience, rather than through textbooks, by solving real-world problems – this is also called **problem-based learning**. Students’ learning is measured using authentic assessments, i.e. their ability to demonstrate what they can do with their knowledge and skills. Students also complete four years of required language courses, with a daily focus on global citizenship through real-life learning experiences such as Model United Nations. Additionally, students complete projects that relate to global issues, and they compile the best examples of their papers, reports and other materials into what is

called a learning portfolio. Students learn to work collaboratively with individuals from diverse cultural backgrounds. This prepares them to navigate the challenges of cross-cultural communication and daily living in a diverse environment. Students round out their study program through internships and by volunteering in their communities, where they provide service but also learn while doing their work; study abroad language immersion; and several options for advanced level courses (e.g. dual credit and Advance Placement).

## LEARNING THROUGH PROJECTS

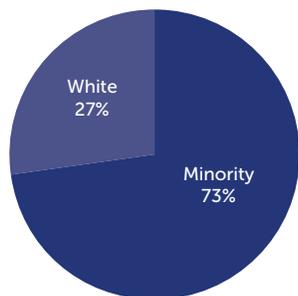
**Project-Based Learning sparks students’ interest and engagement.** As they design unique portfolio projects during daily student advisory periods, or work on senior capstone projects, students learn how to



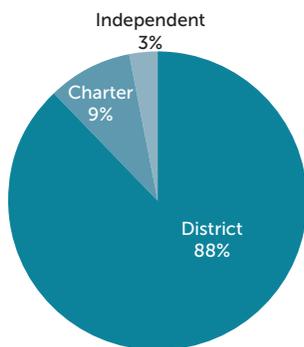
## DEEPER LEARNING IN ACTION

Students at two ISSN public schools are extending their learning beyond the walls of their classroom through a partnership with a learning center for the poor in a slum of Bangor, India to raise awareness about global living conditions. Students first learned statistics about the global rise of “mega-slums” and were also exposed to contemporary artists who were engaged with these issues. They then collaborated with the learning center to share images, art and stories about everyday lives, and encouraged students to participate in a global conversation on how the majority of the world’s population lives and what can be done to improve daily life. Moving from learning about an issue to applying that knowledge in the real world is exactly what deeper learning is about.

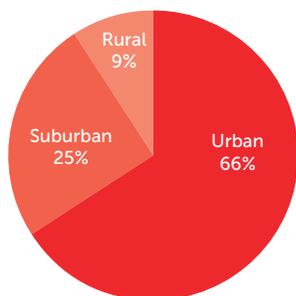
DEMOGRAPHICS:



GOVERNANCE:



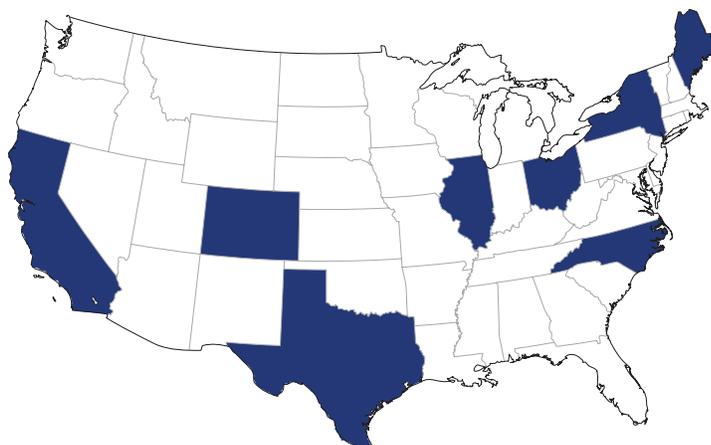
LOCATION:



Additional demographics:

**63%** Free or reduced lunch  
**16%** English-language learners

**16,800+ STUDENTS** in **32 SCHOOLS** across **8 STATES**



**3** ELEMENTARY SCHOOLS  
**3** MIDDLE SCHOOLS  
**7** GRADES 6-12  
**19** HIGH SCHOOLS

solve problems, think critically, and reflect on the work they have done throughout the year. They analyze and evaluate global issues from multiple perspectives, based on relevant information gathered and synthesized from sources around the world. Students might examine the question, “Do we have a stereotypical view of Africa? Why? Why not?” Students engage in reflection using the ISSN Graduate Profile to assess their global competency, for example in foreign language literacy, understanding of global interconnectedness, media literacy, and cross-cultural collaboration.

**A COMMITMENT TO EXCELLENCE AND EQUITY**

The ISSN is committed to serving the needs of low income and minority students in urban, suburban, and rural communities. Network-wide, ISSN schools serve students in grades K-12, 78 percent of whom are minority students and 65 percent are students from low-income families. A combination of rigorous curricula, assessment and instruction, inclusive school culture, family and community involvement, and experiential learning results in students who are doing better academically and graduating at greater numbers than their peers. In an average Asia Society International Studies School the graduation rate is 88 percent. Nearly 90 percent of ISSN graduates are accepted to two or four year colleges – a testament to students seeing the importance of pursuing postsecondary education.

**TEACHER PROFESSIONAL DEVELOPMENT**

Fostering an environment of deeper learning demands committed professionals. Teachers at ISSN schools engage in on-going professional development. They mentor one another, observe each others’ lessons, give constructive feedback to improve instruction, study together to stay abreast of the latest research and instructional strategies, and collaborate with teachers locally and nationally through the Network. Teachers are willing to engage in international learning experiences and model for students how to be receptive to the perspectives of others. In this way they exemplify the very aspects of deeper learning they are seeking to develop in their students.

**COMMON CORE AND MORE**

ISSN schools employ the Graduation Performance System (GPS), a performance assessment system through which teachers engage students in Project-Based Learning and standards-based evaluation of their work. While aligned to the Common Core State Standards, the GPS goes beyond with the addition of the element of agency, where students not only analyze and interpret information, but engage in advocacy or action based on their own interests. Students develop personalized service projects such as raising awareness about water crises globally, or child abuse locally. In these projects they master the content, use critical thinking and communication skills, and navigate the ups and downs of working collaboratively with a wide range of people. All these activities prepare them well for success in college and careers.

**Network operator type:** Professional Development Provider  
**Founded:** 2003  
**Headquarters:** New York, NY  
**Website:** [www.asiasociety.org/education/international-studies-schools-network](http://www.asiasociety.org/education/international-studies-schools-network)  
**Phone:** (212) 327-9208  
**Email:** [bwiley@asiasociety.org](mailto:bwiley@asiasociety.org)  
**Twitter:** @AsiaSocietyPGL; @bwileyone; @ISSN

**Learn more about Asia Society’s students:**  
<http://asiasociety.org/education/international-studies-schools-network/international-studies-schools-network>

# BIG PICTURE LEARNING

## WHY DEEPER LEARNING?

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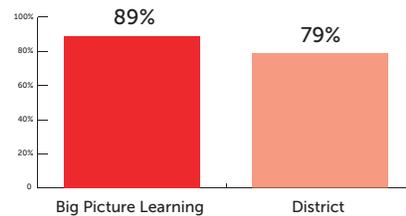
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

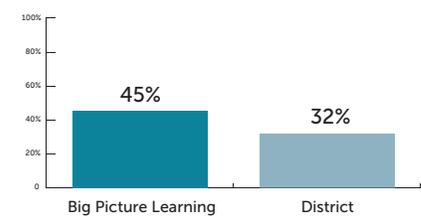
Big Picture Learning supports a network of fifty-six public schools located across the United States and a growing number internationally. Founded in 1995, Big Picture has refined and expanded its innovative public school design, which connects high school and college, to include support of urban and rural student populations. The core of the design is creating a learning program for each student, based on his or her academic and career interests and needs and on addressing essential learning standards. Big Picture Learning schools promote learning goals to develop critical thinking, quantitative reasoning, communication, and collaboration.

## BIG PICTURE LEARNING STUDENTS OUTPERFORM THEIR PEERS IN CORE ACADEMIC SUBJECTS

### English Language Arts



### Math



## PERSONALIZED LEARNING

The curriculum, learning environment, and use of time during the school day at Big Picture schools are determined based on the student’s individual interests, talents, and needs. Students have the option of taking academic workshops at school or of taking college classes if they are ready for the work and the subject is one they wish to study. Big Picture Learning believes that personalizing education is about doing what’s best for kids—pushing and pulling at the right time, helping them solve problems, and providing the right measures of challenge and support for each student in order to promote growth. Students take responsibility for and ownership of their learning by pursuing their interests and

passions in the real world; they develop skills in school-based settings as well as through learning experiences outside of the school building, school day, or the academic year.

## LEARNING IN THE REAL WORLD

The main component of every student’s education at a Big Picture school is **Learning Through Internship/Interest**. In this internship with an expert mentor, the student completes an authentic project that uses real-world problems and projects that allow students to explore and discuss these problems in ways that are relevant to them and that benefit the student and the mentor. These internships are the main path to deepening student learning and academic



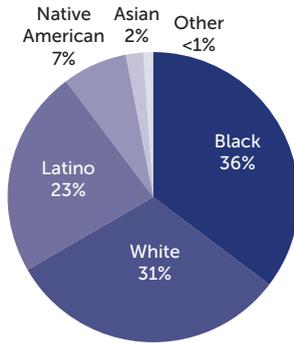
Like DJ, all Big Picture Learning students are encouraged to follow their passion while simultaneously learning to excel academically.

## DEEPER LEARNING IN ACTION

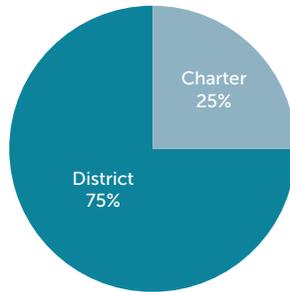
DJ’s quandary was two-sided: he toyed with dropping out of school, yet he yearned to go to college. A classmate told him about the Metropolitan Regional Career and Technical Center, informally referred to as “the Met” and the first Big Picture Learning school, where “you can study what you want to study.” DJ’s first Met internship was creating street murals and doing silk screening. That’s when he discovered his flair for business. He jumped into the Met’s entrepreneurial program run by a local business person. DJ was tapped to be a CEO of a new product launch—Big Picture Soda. He drew up business plans, hired fellow students, and raised \$10,000 in six months, landing Whole Foods and other stores to distribute the new drink. These tasks required DJ to be a creative problem solver, use communication skills to convince others to support the business and product, and collaborate with his employers and funders. The profits from the venture helped support a Dollars-for-Scholars scholarship project. The internship position helped DJ develop content knowledge in English, mathematics, and business, and he enrolled in Howard University where he successfully majored in business.

7,000 STUDENTS *in* 56 SCHOOLS *across* 15 STATES

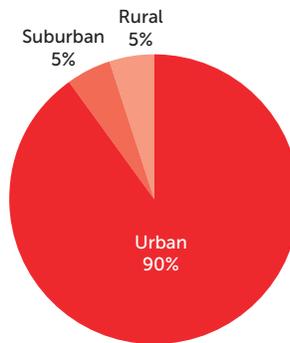
## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

67%

Free or  
reduced  
lunch

20%

Special  
Education

## Network operator type:

Partnership Support Organization and  
Professional Development Provider

Founded: 1996

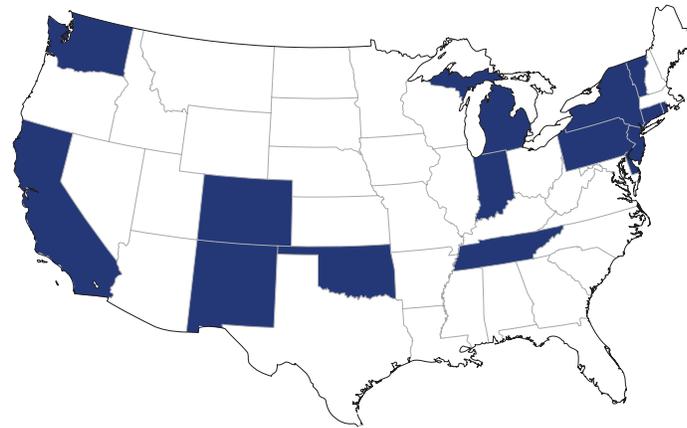
## Headquarters:

325 Public Street  
Providence, RI 02905Website: [www.bigpicture.org](http://www.bigpicture.org)

Phone: (401) 752-3442

Email: [info@bigpicturelearning.org](mailto:info@bigpicturelearning.org)Twitter: [@bigpiclearning](https://twitter.com/bigpiclearning)

## Learn more about Big Picture Learning:

[www.bigpicture.org/influence](http://www.bigpicture.org/influence)  
[www.bigpicture.org/innovation](http://www.bigpicture.org/innovation)  
[www.bigpicture.org/schools](http://www.bigpicture.org/schools)10%  
ELEMENTARY/  
MIDDLE  
SCHOOLS90%  
HIGH  
SCHOOLS

growth. At one school a student shared his passion for flying and described his internship working at a small airport, learning about all aspects of the aircraft industry. With the aid of his school advisors and workplace mentor, the mathematics and science he learned in the classroom were reinforced and integrated into his work with aircraft on a daily basis. This helped him see the relevance of academics in a career, strengthened his content knowledge, and helped him determine the next steps along his proposed career path.

## AUTHENTIC ASSESSMENT

Authentic assessment measures students' ability to solve real-life problems. For example, while a traditional assessment for a chemistry class might consist only of multiple choice questions that require little more than memorization, an authentic assessment engages students in scientific inquiry and might ask test-takers to propose their solution to helping their community clean up a chemical spill in a local lake. Big Picture Learning uses authentic assessments that ask students to demonstrate meaningful application of essential knowledge and skills. Their assessment criteria is individualized and fit to each student based on the standards of the student's project (as gauged by the student's advisor with input from mentors, parents, and peers). Assessments include public exhibitions (one per quarter or trimester which tracks student growth, quality of work, and academic depth in the learning goals), weekly check-in meetings with advisors, yearly presentation portfolios, and transcripts (which translate the Big Picture Learning design so that colleges can understand the students' knowledge and skills). Students also reflect upon their

learning by keeping journals.

COLLEGE PREPARATION  
AND SUPPORT

By developing challenging individual learning plans, organizing student visits to colleges, educating families about the college application and financial aid processes, and building relationships with local colleges, Big Picture Learning schools cultivate students' readiness for the challenges of post-high school study. Big Picture Learning school students are required to take college entrance exams and apply to at least one college or postsecondary school program. Many Big Picture Learning students take courses on college campuses as well.

RESULTS THAT SPEAK FOR  
THEMSELVES

Personalizing each student's learning experience, engaging in authentic assessments, and maintaining a focus on rigorous content results in impressive outcomes. Big Picture Learning reports higher passing rates at its schools than at other schools in the same district. Big Picture Learning also has a higher on-time graduation rate than other schools in same districts. For example the Met Sacramento High School, a Big Picture Learning school, has a rate of 89 percent versus 76 percent for the district overall and the Metropolitan Regional Career and Technical Center in Providence, RI has a rate of 81 percent versus 65 percent in the city. A 2012 study of Big Picture Learning alumni conducted by MPR Associates, Inc., found that 74 percent of Big Picture Learning graduates enrolled in college within the first year after graduation, and on average the freshman-to-sophomore persistence rate was 87 percent.

# ConnectED/LINKED LEARNING

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

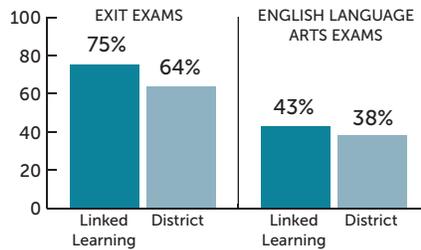
A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

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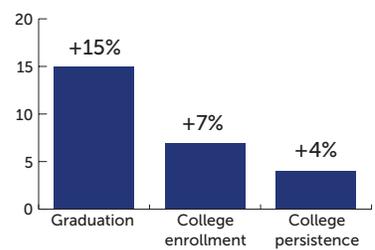
[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

Linked Learning is an approach that uses “pathways” to help students of all abilities connect learning to their interests and career goals. A pathway spans grades nine to twelve, connects high school and postsecondary institutions to ensure a smooth transition after graduation, and integrates rigorous academic instruction with demanding technical curriculum and field-based learning. Pathways are developed around industry sectors, such as business and finance, building and environmental design, biomedical and health sciences, or arts, media, and entertainment.

### Linked Learning students outperform peers on exams



### Linked Learning students are more likely to graduate and go to college



## A STRUCTURED APPROACH THAT SUPPORTS STUDENTS AND TEACHERS

By integrating “rigor, relevance, and relationships” into the pathways, Linked Learning melds strong academics, technical education relevant to the student’s chosen career path, and real-world experiences which allow students to develop relationships with teachers and community mentors focused on career goals. Most pathways limit the number of students to 250–500 so that teaching is individualized, and struggling students are identified and helped. Many pathways adopt a flexible schedule that allows more time for in-depth labs and Project-Based

Learning, longer classes, extra tutoring for students that are behind, work-based learning experiences, and common preparation time for teams of teachers to develop integrated curricula and work with employers and students. Schools that use Linked Learning pathways train and motivate teachers and school leaders so they can develop partnerships with local industry and business to inform curriculum and support work-based learning. Linked Learning supports the development and operation of pathways at both the district and school levels, but it advocates for district-wide implementation as a way to change instruction and learning for all students.



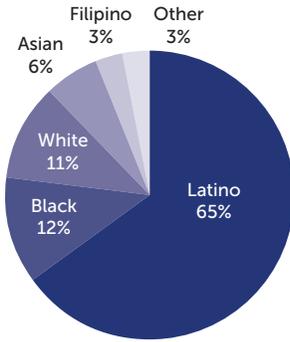
Linked Learning students display their work for parents, peers, and the local community, including business leaders, encouraging a sense of community engagement and academic relevance to the real world.

## DEEPER LEARNING IN ACTION

Porterville (California) Unified School District hosted an exhibition of student work titled Night at the Pathway Museum, where students showcased their Project-Based Learning and described how they deepened their content knowledge over the term of the project. Projects included robotics design, healthy diet and nutrition, and the design of buildings. Working in teams, students from nine Porterville high schools chose unresolved issues in the community they wanted to address. Then, with data culled mostly from local libraries, they formed conclusions and made recommendations for how to resolve the problems. Students collaborated in presenting their findings to an audience of outside reviewers who evaluated the student presentations using criteria which ensured that the projects addressed learning outcomes set by teachers. Students had an opportunity to showcase their content knowledge in various disciplines (English, math, science, and technical fields), and they were asked to explain what they learned and how they applied their knowledge to their project. Students explained the critical-thinking and problem-solving skills used to develop their conclusions during their presentations. A by-product of the exhibition is that more employers want to partner with the high schools and support the Linked Learning approach.

50,000 STUDENTS *in* 173 PATHWAYS *across* 62 HIGH SCHOOLS\*

## DEMOGRAPHICS:



## GOVERNANCE:

100% District/  
District Charter

## LOCATION:

100%  
Urban/  
Suburban

## Additional demographics:

70%

Free or  
reduced  
lunch

11%

Special  
Education

25%

English-  
language  
learners

**Network operator type:**  
Professional Development and  
Technical Assistance Provider

**Founded:** 2006

**Headquarters:**  
2150 Shattuck, Suite 1200  
Berkeley, CA

**Website:** [www.ConnectEdCalifornia.org](http://www.ConnectEdCalifornia.org)

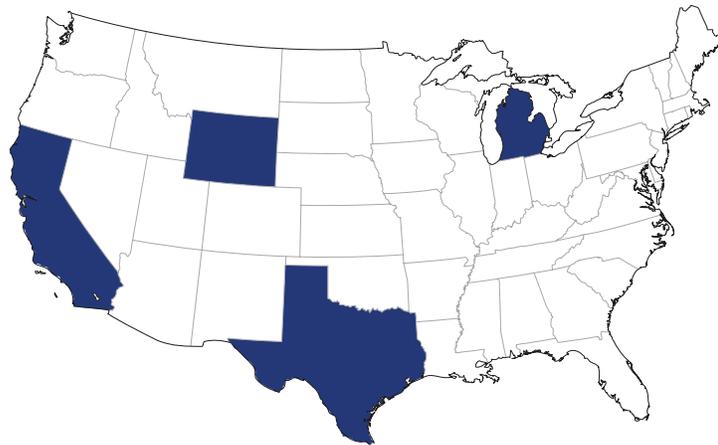
**Phone:** (510) 849-4945

**Email:** [info@ConnectEdCalifornia.org](mailto:info@ConnectEdCalifornia.org)

**Twitter:** @ConnectEdOrg

**Learn more about Linked Learning:**

[www.connectedcalifornia.org/linked\\_learning](http://www.connectedcalifornia.org/linked_learning)



## CONNECTING ACADEMICS TO REAL-WORLD APPLICATIONS

The Linked Learning approach relies on teachers to connect theoretical knowledge and real-world applications in newly developed curricula. Teachers in Linked Learning pathways are given adequate time and support to plan and create standards-aligned, integrated, and multidisciplinary project-based instruction and assessments that help students make connections between book learning and real-life learning and to practice problem solving and critical thinking. For example, an engineering teacher who challenges students to design the shape and area for the most energy efficient blade for a wind turbine is reinforcing both the engineering and the geometry standards that students must master. Similarly, a geometry teacher who asks students to propose and defend their placement of blade angles for a wind turbine is helping students understand the geometry of angles and is making mathematics more relevant and understandable by using a real-world engineering context.

## WORK-BASED EXPERIENCES

Linked Learning students have opportunities to connect what they learn in the classroom with work and careers. For example, a biology student enrolled in a health-care pathway might visit a local hospital or medical institute to learn about the science of stem cells or heart disease from scientists and doctors. Students experience the workplace in various ways, beginning in the early high

school years with shadowing business partners to learn about their jobs and careers to engaging in real work with intensive internships in the upper grades. These work-based learning experiences allow students to build supportive relationships with adults and to develop problem-solving, communication, and collaboration skills, all necessary to succeed in the workplace and in college.

## LINKED LEARNING IS WORKING

Schools that have adopted the Linked Learning approach have reported increased attendance rates, improved test scores, and decreased dropout rates than their non-pathway peers. Data collected by the Institute for Evidence-Based Change working directly with school districts shows that in two districts with four-year Linked Learning pathways, ninth grade pathway students fail fewer courses than their peers; 9 percent more Linked Learning students attend four-year postsecondary education institutions than their peers; tenth grade students enrolled in certified pathways are as much as 14 percent more likely than their peers to be on track to complete the California college entrance requirements; and according to data from the Stanford Research Institute, ninth and tenth grade Linked Learning students accumulate significantly more credits than their non-pathway peers.

# EDVISIONS SCHOOLS

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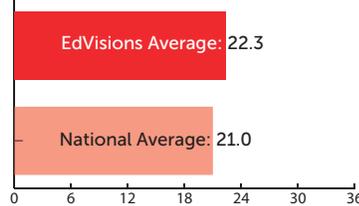
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

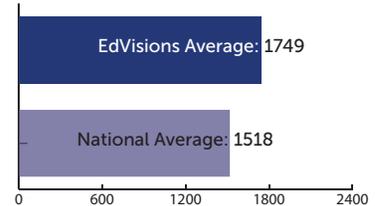
EdVisions Schools, a network of forty small schools, promotes relevant and personalized learning environments that emphasize self-directed, Project-Based Learning to empower students, parents, and teachers. Working primarily with underserved students in both urban and rural areas, EdVisions credits its success to its focus on teacher-led schools, positive caring relationships, mentoring, and active student engagement in school decision making. Students are measured on rigorous academics as well as the deeper learning skills needed for postsecondary education, careers, and civic engagement.

## EDVISIONS STUDENTS OUTPERFORM THEIR PEERS ON COLLEGE ENTRANCE EXAMS

ACT Scores



SAT Scores



## SMALL AND PERSONALIZED

The founders of EdVisions found that students often leave traditional schools due to impersonal curricula and time-driven instruction that pays little attention to relationships and relevant learning opportunities. Through small learning communities, every student at an EdVisions school is treated as an individual. Strategies to support students include the use of personalized learning plans that are designed by students, parents, and teachers; personalized workspaces that are equipped with technology that tracks student progress against their learning plans; full-time student advisors; and a curriculum that emphasizes student projects and presentations. To foster a culture of student ownership, students manage the library, music class, school congress, and multiple student clubs, giving

them additional authentic opportunities to develop communication, collaboration, and critical-thinking and problem-solving skills. EdVisions also focuses on students’ non-academic needs, which helps students think about their own learning by measuring their ability to set reasonable goals, make plans to meet those goals, and persist to achieve those goals.

## SELF-DIRECTED, PROJECT-BASED LEARNING

A core component of the EdVisions approach is the use of self-directed, Project-Based Learning opportunities in which students explore real-world problems and challenges, allowing them to obtain a deeper knowledge of a subject. A central goal of these individual or group projects is to build student mastery through rigorous interdisciplinary content that is relevant to

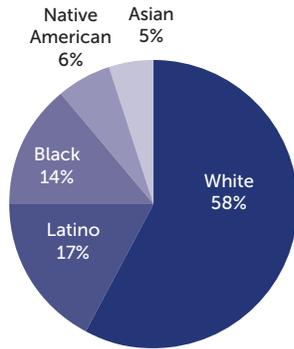


EdVisions students’ learning environments are personalized to give them the tools they need to work on self-directed projects.

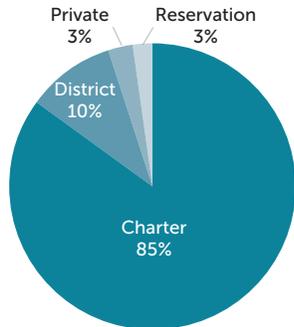
## DEEPER LEARNING IN ACTION

Brooke, an EdVisions student, undertook a project on factory farming and slaughterhouses after she began questioning whether vegetarianism was a legitimate way to stay healthy. She investigated the presence of antibiotics and hormones in meat products, the history of husbandry and slaughtering techniques, and laws governing the U.S. meat industry compared to other countries. She produced a research paper and a visual presentation and exhibit, using samples of vegetable sources of protein, examples of chemicals used in raising meat, and photos of slaughterhouse practices. Her project met standards in biology, environmental science, history, and civics, and gave her a chance to develop her critical-thinking, problem-solving, and communication skills.

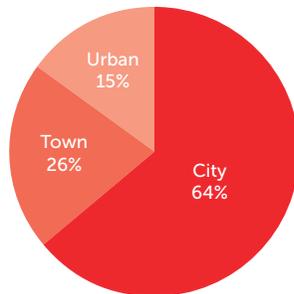
## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

<b>44%</b>	<b>26%</b>
Free or reduced lunch	Special Education

## Network operator type:

Professional Development Provider

**Founded:** 1992 (EdVisions Cooperative)  
2000 (EdVisions Schools)

## Headquarters:

501 Main Street  
P.O. Box 601  
Henderson, MN 56044

**Website:** [www.edvisionschools.org](http://www.edvisionschools.org)

**Phone:** (507) 248-3738

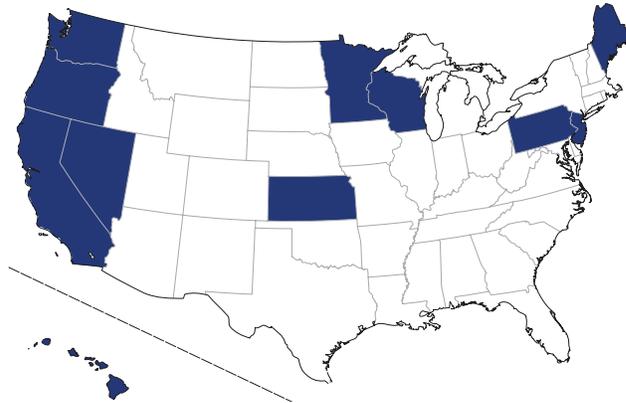
**Email:** [info@edvisionschools.org](mailto:info@edvisionschools.org)

**Twitter:** @edvisions

## See how EdVisions Schools are different:

[www.youtube.com/edvisionschools](http://www.youtube.com/edvisionschools)

**8,740 STUDENTS** in **41 SCHOOLS** across **11 STATES**



**3%**  
ARE  
ELEMENTARY  
SCHOOLS

**97%**  
ARE  
HIGH  
SCHOOLS

the students' lives. One student who was interested in music learned physics through an exploration of sound. Another built on her interest in gardening through a study of the genetics of heirloom tomatoes. Teacher advisors guide students as they develop their individual or group projects. Academic learning standards are embedded into each of these projects and used to demonstrate high levels of understanding. Students demonstrate their learning through online portfolios or publicly through presentations to their peers, parents, and the community.

## AUTHENTIC ASSESSMENT

Authentic assessment measures students' ability to solve real-life problems. For example, while a traditional assessment for a chemistry class might consist only of multiple choice questions that require little more than memorization, an authentic assessment engages students in scientific inquiry and might ask test-takers to propose their solution to helping their community clean up a chemical spill in a local lake. EdVisions students are held to high standards in their project-based learning, not only by their teachers and advisors, but by parents and content specialists outside of the classroom as well. Teachers help guide students' work and ensure that they are meeting content standards and preparing for graduation. Students first develop a project proposal, which is vetted and edited with parents and multiple advisors and content area teachers. Upon approval, a contract is signed to set expectations. Advisors then pay close attention to the student's progress throughout a project, using the contract, content standards, and rubrics as a guide. An advisor might help a student incorporate the algebra skills needed to pass a standardized

test into an upcoming project. Or the advisor might emphasize critical thinking or collaboration skills in which a student needs practice and help the student create a plan to meet those goals. Teachers believe in the philosophy that "a student's best work looks different for every kid," and they demonstrate that belief through multiple forms of authentic assessment.

## TEACHER OWNERSHIP AND DEMOCRATIC GOVERNANCE

EdVisions embraces the principle of teacher ownership of every aspect of the learning environment. They engage "teachers as owners" of a democratic learning community by granting teachers control over numerous core aspects of school management, such as budgeting and staffing choices. Teachers are evaluated by peers, students, and parents. New staff are incorporated within the school culture and offered continuous improvement support by a teacher-led coaching and mentoring plan. This approach is grounded in the belief that in order to successfully engage students and promote deeper learning, the school must espouse a culture of strong leadership and ownership at all levels.

## GETTING RESULTS

EdVisions reports that students in their schools earn higher scores on the SAT, that approximately 80 percent of their students graduate, and 82 percent of students have gone to a two- or four-year college. In their flagship school, 69 percent of students have graduated from postsecondary institutions, while 22 percent are still enrolled, for a total of 91 percent. Additionally, EdVisions students consistently outperform their peers at similar schools on growth in their social and emotional skills.

# ENVISION EDUCATION

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy.

To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

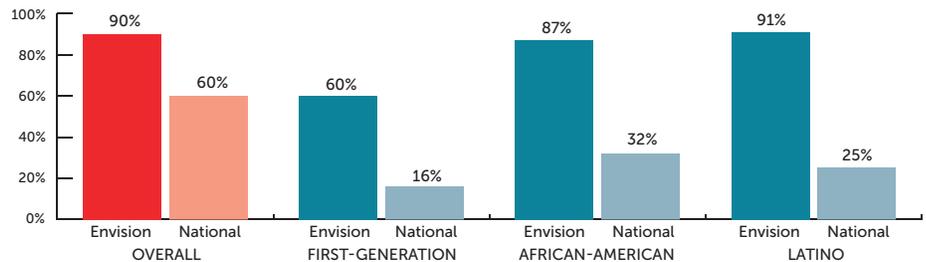
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

Envision Education’s curriculum and model utilize a “Know, Do, Reflect” approach to ensure that students excel at the deeper learning skills of thinking critically, collaborating productively, and communicating clearly. At Envision’s three small, urban public schools in the San Francisco Bay Area, students learn not only to master academic content (to “know”), but also how to apply that knowledge to real-world situations (to “do”). Throughout the process of acquiring knowledge, they discuss and analyze how they are learning (to “reflect”).

## ENVISION GRADUATES ARE COLLEGE-BOUND

Envision students—especially African Americans, Latinos, and those who represent the first in their family to pursue higher education—enroll in college at higher rates than their non-Envision peers.



## DRIVING SUCCESS THROUGH RIGOROUS STUDENT ASSESSMENT

As part of the “Know, Do, Reflect” approach to learning, Envision Education schools use multiple assessments that emphasize students’ deep understanding of academic topics. Students assemble a portfolio of their best work, which they must “defend,” dissertation-style, in front of an audience of educators, peers, and community members. As students prepare their portfolios and receive feedback from teachers, they hone not only their critical thinking skills, but also their communication skills, as they describe

their learning across grades and classes. Students present a defense of their work at the end of the tenth grade, where they provide examples of what they have studied and explain their learning step by step. Students continue to make presentations of their work throughout their school career, which allows them to develop their communication skills and apply their knowledge. Seniors must pass the “college success portfolio” defense, which is required for graduation from an Envision school. One student reflected that in the tenth grade it was difficult to present, as she had to keep revising and improving



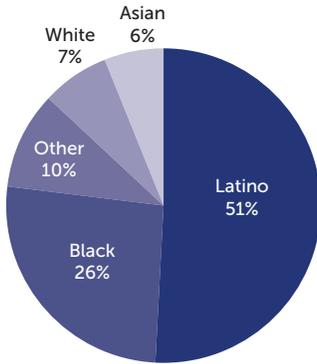
Sha'nice Patterson credits her success to her teachers and mentors at City Arts and Tech, an Envision school in San Francisco, California.

## DEEPER LEARNING IN ACTION

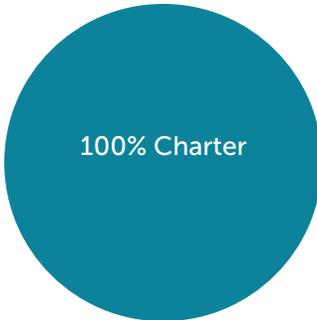
When Sha’nice started at City Arts & Technology High School (CAT) in San Francisco, her mother had just died at age forty-two. She was estranged from her father, and she was being raised by her eighty-year-old grandmother. CAT Principal Karen Bioski recalls the arrival of an “angry, frustrated girl.” Four years later, Sha’nice was a student transformed. She had received acceptances from three four-year universities and was awaiting word from several more. What caused the transformation? Sha’nice said the teachers at CAT offered engaging projects that interested her, provided opportunities to be responsible for her own learning, encouraged her to take on new challenges, and helped her learn from her mistakes. Through presentations of her work she got to “show what I know,” honing her critical-thinking and communication skills. Her junior year internship at the San Francisco city attorney’s office—the first time the office employed a high school intern—developed her problem-solving skills and instilled the desire to work harder to get to college.

1,300 STUDENTS in 3 SCHOOLS in the SAN FRANCISCO BAY AREA

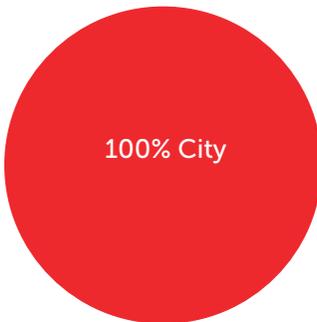
DEMOGRAPHICS:



GOVERNANCE:



LOCATION:



Additional demographics:

69%

Free or reduced lunch

11%

Special Education

11%

English-language learners

**Network operator type:**  
Charter Management Organization

**Founded:** 2002

**Headquarters:**  
11 Myrtle Street, Suite 203  
Oakland, CA 94607

**Website:** [www.envisionschools.org](http://www.envisionschools.org)

**Phone:** (510) 451-2415 x153

**Email:** [info@envisionschools.org](mailto:info@envisionschools.org); [sally@envisionlearning.org](mailto:sally@envisionlearning.org)

**Twitter:** @envisionschools

Learn more about Envision's students:

<http://www.envisionschools.org/student-work-testimonials/>



3 HIGH SCHOOLS

her presentation; by the twelfth grade, she and other students were able to present confidently and comfortably and had mastered the content knowledge. She was able to accomplish this because she had many opportunities to present, learn from the experience, apply those lessons to the next opportunity, and to constantly refine each presentation.

DEVELOPING REAL-WORLD PROJECTS

Envision teachers embed rigorous academic content in projects that speak to students' life experiences and that have relevance and application in the larger world and in their communities. This instructional approach is called Project-Based Learning. These learning experiences are augmented by community-based projects and internships at partner organizations and businesses. During part of their eleventh grade year, all Envision students work at an internship site, such as the Oakland Zoo, St. Luke's Hospital, Youth Radio, or California Academy of Sciences, where they work side by side with employer mentors who help them solve real-world problems and apply their knowledge.

PROMOTING PROFESSIONAL DEVELOPMENT

Envision schools invests heavily in teacher professional growth, including new teacher training in August, three hours of weekly on-site professional development time, and ten days of professional development over the summer and during the school year. Envision teachers work

and learn collaboratively, sharing their projects and tools, trading ideas and successes, and learning best practices from each other—within and between Envision Schools and, through Envision Learning Partners, between schools and systems across the country.

COLLEGE PREPARATION AND SUCCESS FOR EACH STUDENT

Hand in hand with this academic preparation, teachers help students develop the skills, attitudes, and expectations that support college success. They do this by emphasizing lifelong learning, cultivating persistence and confidence, and helping students navigate the college admissions process. Envision students also visit college campuses and receive critical tutoring to prepare for the SAT. This intentional focus on college preparation and the strong academic foundation students receive at Envision Schools has led to positive outcomes. According to data collected by Envision, fully 100 percent of Envision students meet all the requirements for admission to California's public university system, and more than 90 percent of graduates go on to attend either a two- or four-year college, compared to 40 percent of all California high school graduates. Additionally, 87 percent of African American students and 91 percent of Hispanic students at Envision Schools go to college, compared to the national averages for those groups of 32 percent and 25 percent respectively.



# EXPEDITIONARY LEARNING

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

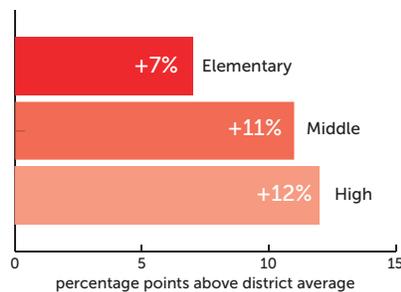
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

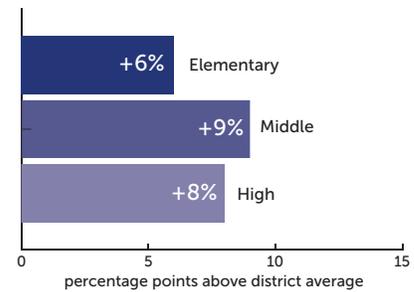
Expeditionary Learning is a network of schools in which students learn by doing. Students at these schools learn math, science, history, English language arts, and many other subjects through projects, or “expeditions”, that connect them to their communities and teach them the value of service. Students also learn how to think critically, solve problems, and collaborate—the kind of deeper learning skills that will help them to succeed in college, the workforce, and society.

## EXPEDITIONARY LEARNING SCHOOLS SIGNIFICANTLY OUTPERFORM DISTRICT AVERAGES

Reading/English Language Arts (2010-11)



Math (2010-11)



## LEARNING BY DOING

**Real-world experience through service is what sets Expeditionary Learning apart.** In contrast to traditional instruction, students learn by designing their own projects, going on extended expeditions outside the classroom to work in their communities for weeks at a time—covering topics as diverse as ecology, zoning issues, and voting rights.

Students work alone and in groups, conducting original research, analyzing data,

and presenting their findings to their teachers and their fellow students. The work goes in stages, as students solicit feedback from their peers and instructors, making revisions along the way. Each step in the process reinforces a culture of continuous improvement and refinement. Among the most popular events of the school year are exhibition nights, in which students display their work to fellow students, educators, parents, and the community.

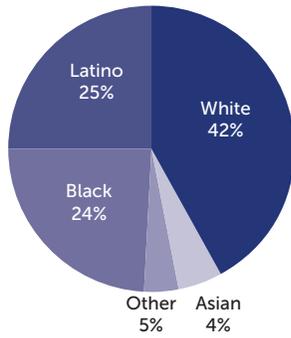


Crystal Manrique and Luis Barbosa, students at Springfield Renaissance, collect data for their environmental science project.

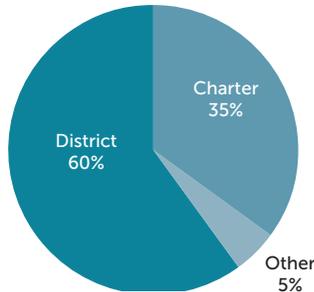
## DEEPER LEARNING IN ACTION

Students at The Springfield Renaissance School in Springfield, MA are learning about environmental science and saving their school district money. In 2010, Joseph Forest, a city facilities engineer, worked with a tenth grade environmental science class on a project to figure out how to save energy. The students collected data and developed recommendations for conservation in the city’s school buildings, and presented their findings to city officials. Springfield Mayor Domenic Sarno not only commended students on their effort, but backed their ideas with a \$156,000 investment based on their proposal, known as “Greenprint.” Within two years the city recouped all of its investment and has engaged the students in future projects, dedicating another \$250,000 towards that work.

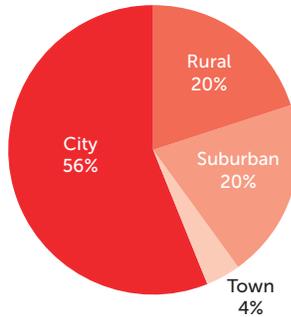
## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

**55%** Free or reduced lunch  
**13%** Special Education  
**11%** English-language learners

**Network operator type:**  
Professional Development Provider

**Founded:** 1987

**Headquarters:**  
National Office  
247 West 35th Street, 8th Floor  
New York, New York 10001

**Website:** [www.elschools.org](http://www.elschools.org)

**Phone:** (212) 239-4455 (National office)

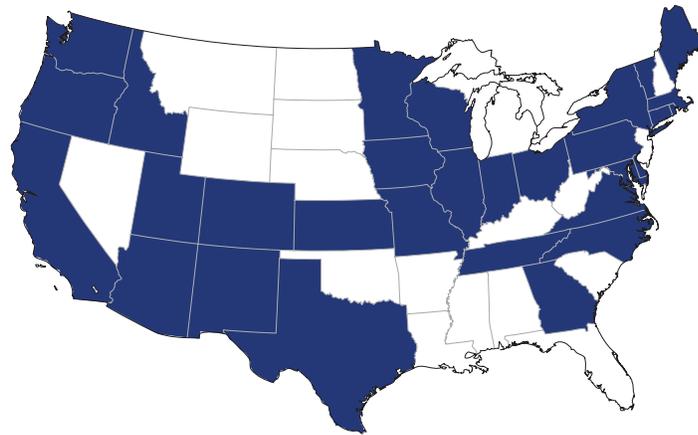
**Email:** [info@elschools.org](mailto:info@elschools.org)

**Twitter:** @ExpedLearning

## See additional examples of student work:

[www.elschools.org/student-work](http://www.elschools.org/student-work) &  
[www.elschools.org/evidence](http://www.elschools.org/evidence)

**46,000+ STUDENTS** in 158 SCHOOLS across 29 STATES



**68**  
ELEMENTARY  
SCHOOLS

**60**  
MIDDLE  
SCHOOLS

**30**  
HIGH  
SCHOOLS

## DIVERSE STUDENTS WHO CONSISTENTLY OUTPERFORM THEIR PEERS

Expeditionary Learning encompasses a diverse community of students and educators in schools across the country. Their 46,000 students come from diverse socioeconomic and ethnic backgrounds, and over half of their students are minorities. According to a 2013 study by Mathematica, students in Expeditionary Learning schools consistently outperform their peers on standardized tests. This includes substantially higher scores for both black and Latino students. Expeditionary Learning students have a consistently higher college acceptance rate than similar students from other schools.

## TEACHERS WHO RECEIVE ONGOING TRAINING AND DEVELOPMENT

Expeditionary Learning schools pay particular attention to their teachers. Teachers and school leaders work together to improve curriculum design, instruction, school culture, leadership, and assessment. Faculty members take part in coaching sessions, demonstration lessons, classroom observations, and the EL Commons, an online forum where educators can share information and learn from their peers. Each year over 800 educators come together for master classes, discussion groups, and regional meetings. In addition to rigorous assessment and a focus on making sure that teachers use data to inform their teaching,

there is plenty of room for creativity and judgment. Teachers have the flexibility to adjust instruction to meet their students' needs while measuring progress.

And "learning by doing" isn't reserved only for students; by accompanying their students on expeditions, teachers understand the importance of going beyond the classroom.

## A RIGOROUS NETWORK

It isn't easy to become an Expeditionary Learning school. Each prospective school must undergo a rigorous assessment before it can join the network. Expeditionary Learning collects a variety of data about the school and gauges the district's support for comprehensive change. It looks for thoughtful and influential leadership within the school and examines the faculty's willingness to embrace a new model.

## LINKED TO THE COMMON CORE

To fully implement the Common Core Standards decision-makers must demand high-quality, aligned curricula to deliver both the academic content and skills of deeper learning. New York selected Expeditionary Learning to create the statewide English Language Arts and Literacy curriculum for grades 3-8. These materials will be reviewed to demonstrate their quality and alignment to the Common Core. Finally, they'll be openly available for other states to adopt and to help ensure that all students are prepared for college, work, and life.



# HIGH TECH HIGH

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

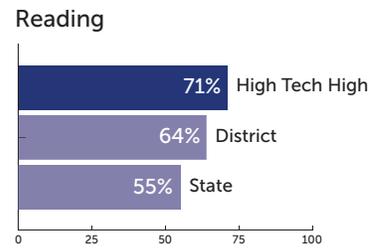
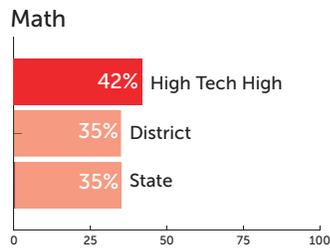
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[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

High Tech High is a network of eleven schools in San Diego County, California, spanning grades K-12 that prepares students for college and careers by providing a personalized, hands-on approach to learning, strong connections between students and adults, and a common intellectual mission, with strong teacher leadership. High Tech High is authorized by California to fully credential its own teachers and also opened a graduate school of education in 2007 that offers master’s degree programs for experienced educators.

## HIGH TECH HIGH STUDENTS SCORE BETTER ON BOTH MATH AND READING TESTS



## COMMON INTELLECTUAL MISSION

High Tech High schools are diverse and integrated. Students are enrolled by a ZIP code-based lottery, and there is no tracking of students by perceived academic ability. All students pursue a rigorous curriculum that provides the foundation for entry into the University of California system and employment. Schools articulate common expectations for learning that value deeper learning competencies, the integration of hands and minds, and the merging of academic disciplines. Performance-based assessments are used to gather evidence of the scope of a student’s knowledge on a subject, rather than simply testing the accuracy of their responses on a selection of questions. Students develop projects, solve problems, present findings to community

panels, and complete an academic internship, a substantial senior project, and a personal digital portfolio. Teachers employ a variety of approaches to accommodate diverse learners and recognize the value of having students from different backgrounds working in collaboration.

## A TRANSPARENT LEARNING ENVIRONMENT

Walk into any High Tech High school, and you are immediately struck by the open learning environment marked by high-quality student work on display everywhere—in galleries, outdoor learning spaces, and specialty laboratories. The caliber of work is consistently high, and students are proud to showcase their learning, which is the product of hours of toil, revision, and working through challenges collaboratively

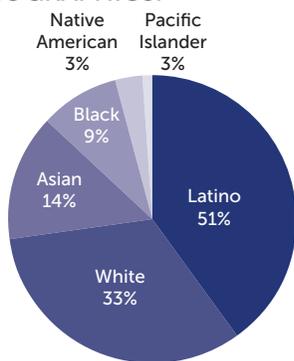
## DEEPER LEARNING IN ACTION

High Tech High seniors collaborated with the San Diego Blood Bank, along with an art teacher and a biology/multimedia teacher on the Blood Bank Project. Students were divided into pairs to research blood-related topics that incorporated various disciplines, such as biology, health, media, and history. Topics focused on leukemia, sickle cell anemia, the AIDS epidemic, the use of blood in film, and the role of blood in religion. Once the research and findings were complete, students created a painting of their theme on a large piece of custom-cut wood. An opening housed a laptop displaying an audio-visual presentation they had designed to teach the community about their topic. The final product highlighted students’ research about the importance of blood to our health, blood diseases, and the symbolism and use of blood in art and religion. Students collaborated in conducting their research and used critical thinking to analyze how blood is viewed by the entertainment industry and by religions. Students demonstrated their communication and presentation skills as they shared their findings with a broader audience. Students’ final projects were exhibited at the JETT Art Gallery in San Diego, next to the Blood Bank to promote blood donations.



4,700 STUDENTS *in* 11 SCHOOLS *in* SAN DIEGO COUNTY

## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

**40%**  
Free or reduced lunch

**12%**  
Special Education

**7%**  
English-language learners

**Network operator type:**  
Charter Management Organization

**Founded:** 2000

**Headquarters:**  
2861 Womble Rd.  
San Diego, CA 92106

**Website:** [www.hightechhigh.org](http://www.hightechhigh.org)

**Phone:** (619) 243-5000

**Email:** [bdaley@hightechhigh.org](mailto:bdaley@hightechhigh.org)

**Twitter:** @hightechhigh

**Learn more about High Tech High:**

<http://videos.hightechhigh.org/>



**2**  
ELEMENTARY  
SCHOOLS

**4**  
MIDDLE  
SCHOOLS

**5**  
HIGH  
SCHOOLS

and openly. Students often take risks as they try new approaches. Reflection is a standard part of their practice, which helps students develop resiliency and persistence and helps them learn how to learn. Students are encouraged to explore and investigate and use their mistakes as learning opportunities. After one student mistook an alternator for a motor and plugged the alternator into the wall, causing power to go out in his classroom, he reflected on how much he learned about electricity from his error.

## ADULT WORLD CONNECTION

High Tech High students connect their studies to the world beyond school through field studies, community service, internships, and consultation with outside experts. Using their good communication skills, students routinely create and present work for audiences of employers and community leaders and exhibit their work in professional venues. All high school students complete internships with employers or in a community service setting, where they develop projects that contribute to the workplace or help solve a problem. One student's project analyzed bacteria levels at popular beaches which required sophisticated measurement of the water and interviews with doctors and other health experts. The student determined the safety of the water and the illnesses that could be caused by the different types of bacteria and presented the material to peers, teachers, and local experts, making use of critical-thinking and problem-solving skills.

## TEACHER AS DESIGNER

High Tech High teachers are program and curriculum designers. They work in

interdisciplinary teams to design the courses they teach and participate in critical decisions regarding curriculum, assessment, professional development, hiring, and other significant areas of the school. The school schedule supports team teaching, and teachers have ample planning time to devise integrated projects, common rubrics for assessment, and common rituals by which all students demonstrate their learning and progress toward graduation. High Tech High has a deep commitment to professional development and teacher preparation and offers certification to teachers that teach at High Tech High or an affiliated school. The High Tech High Graduate School of Education offers master's degrees in teacher leadership and school leadership which are open to experienced teachers and educators.

## RIGOROUS LEARNING, OUTSTANDING RESULTS

Students at High Tech High are exposed to a rigorous curriculum that meets admission requirements to the University of California, and they demonstrate their learning through performance assessments and portfolios, as well as standardized assessments. The High Tech High Network reports that for U.S. schools, 98 percent of graduates go to college, a strong rate given that 35 percent of High Tech High graduates are first-generation college students. Thirty percent of students go into the STEM (Science, Technology, Engineering, and Math) fields (the national average is 17 percent), and 75 percent of graduates enroll in four-year institutions.



## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

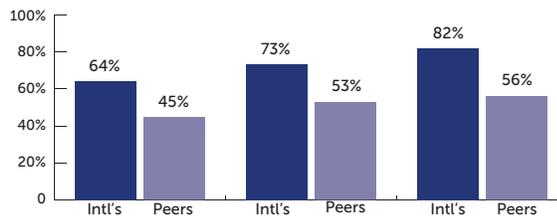
**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

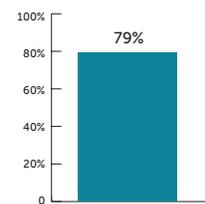
Since 2004, Internationals Network for Public Schools has supported a network of schools that provide quality education for immigrant youth who have arrived in the United States with limited English language skills, varying degrees of schooling, and different literacy levels in their native language. The schools focus on developing language skills and preparing students with the knowledge and skills they will need for college. Internationals Schools are close-knit, nurturing communities that support students who may feel displaced as newcomers to the United States and students accustomed to the U.S. but who are still not proficient in English.

## INTERNATIONALS STUDENTS GRADUATE AT HIGH RATES

### 2-, 4-, & 6-year Graduation rates



### College acceptance



## LANGUAGE AND CONTENT INTEGRATION

In Internationals Schools, every teacher teaches content and language. Teachers know that strong language skills develop most effectively in context and emerge most naturally in a purposeful, language-rich, interdisciplinary, and experiential program. Teachers are constantly seeking language learning opportunities regardless of the content area and incorporate the home language skills of students to foster learning of English and other content. A biology class, for example, also offers an opportunity to understand the language features embedded in content vocabulary.

## EXPERIENTIAL LEARNING

Internationals Schools believes that learning outside the classroom is essential to providing the real-world experiences necessary to learn English and become prepared for life after high school. An internship program is a key element for students to explore career interests while applying and extending their skills in meaningful settings. Students participate in activities such as community service, research projects about community issues, field trips to local museums, and lab experiences. Authentic assessments that ask students to perform real-world tasks that demonstrate meaningful



Internationals students draw upon their diverse backgrounds and interests to develop a course of study that keeps them engaged and succeeding academically.

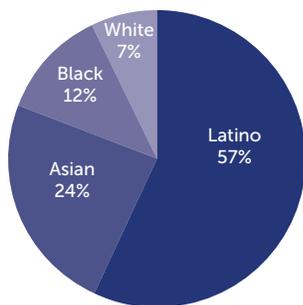
## DEEPER LEARNING IN ACTION

Ygnacio, a native of the Dominican Republic, moved to New York City with his family as a teen with little formal education. The transition was difficult, but Ygnacio was fortunate to enroll at the International High School at LaGuardia Community College, which provided him with the tools he needed to overcome his dyslexia and make up for missed time in school. At one point, overwhelmed by the educational challenge he faced, Ygnacio considered dropping out. However, his peers, teachers, and other support staff pushed him to focus on his interests in community organizing. He was able to take an internship at a community-based organization advocating for educational equity, allowing him to develop valuable problem-solving and communication skills as he worked alongside community partners to support the organization’s strategic goals. He also incorporated what he learned into individual and group class projects and steadily developed his academic skills. The collaborative environment and work with other students of different ability levels helped him learn and provided an additional support structure. As he gained a better sense of his interests and became confident in his abilities, his English skills and overall grades improved until he was able to graduate. He is the first member of his family to graduate from college.

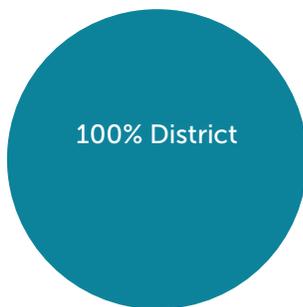
# INTERNATIONALS NETWORK FOR PUBLIC SCHOOLS

5,500+ STUDENTS *in* 17 HIGH SCHOOLS *across* 3 STATES *and*  
THE DISTRICT OF COLUMBIA

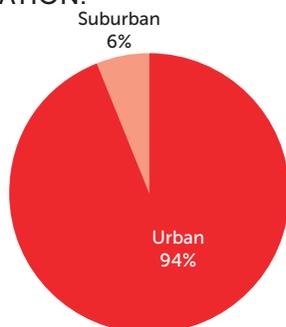
## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

**90%** Free or reduced lunch  
**100%** English-language learners

**Network operator type:**  
School Development and Support;  
Professional Development and  
Technical Assistance Provider

**Founded:** 2004

**Headquarters:**  
50 Broadway, Suite 2200  
New York City, NY 10004

**Website:** [www.internationalsnps.org](http://www.internationalsnps.org)

**Phone:** (212) 868-5180

**Email:** [info@internationalsnps.org](mailto:info@internationalsnps.org)

**Twitter:** @Internationals9; @ClaireSylvan

**Learn more about Internationals Network  
for Public Schools:**

[www.internationalsnps.org/results](http://www.internationalsnps.org/results)



application of essential knowledge and skills, such as portfolios, are used to monitor progress on academic and other deeper learning skills, such as problem solving and communication.

## HETEROGENEITY AND COLLABORATION

Students are organized into diverse groups, each with a mix of English proficiency, academic backgrounds, native language, and literacy levels. These student groups foster a sense of community and allow students to teach and learn from one another. Through this collaborative approach, students are encouraged to take ownership of their learning and understand content on a deeper level, learning communication, collaboration, and critical thinking skills in the process. Additional supports such as guidance counselors, social workers, structured peer support, homework help, and writing centers are also provided.

## ONE LEARNING MODEL FOR ALL

International Schools believes strongly that all members of the community learn best by engaging in authentic, rigorous, relevant, and collaborative projects that incorporate the voices of all members and use real-world problems to explore in meaningful ways. Not only students, but faculty and principals, work in heterogeneous groups on collaborative projects.

## A NETWORK OF SUPPORT

The first Internationals School began in 1985 as a partnership between the New York City Department of Education and the City University of New York. Over the next sixteen years, three additional schools were opened in New York City, and in 2004, the Internationals Network for Public Schools was formalized to create new schools and support existing schools and districts. At present, the network supports 18 high schools in New York, Virginia, and California.

## GETTING RESULTS

Internationals Schools continue to outperform schools that are serving similar challenging populations. According to the Network, in 2011, 64 percent of Internationals students graduated from high school in four years, 73 percent in five years, and 82 percent students graduated in six years, outperforming the English language learner graduation rate for New York City public schools. Students are not only graduating; 79 percent of graduates were accepted into college. According to New York City's published progress reports, three of the top twenty schools in New York City were Internationals High Schools, including Brooklyn International High School, which was ranked the city's top performing public school in 2008–2009 and is currently in the top three percent of high schools in the city.



# NEW TECH NETWORK

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

## WHAT IS THE DEEPER LEARNING NETWORK?

A national “Deeper Learning Network” of more than 500 schools is delivering deeper learning to students in forty-one states. Composed of ten school networks it collectively serves more than 227,000 students, most of whom are low-income minority students. Each school network has a unique approach, but all foster the deeper learning skills that prepare young people for economic and civic success.

**THE NETWORK:** Asia Society, Big Picture Learning, ConnectEd/Linked Learning, EdVisions Schools, Envision Education, Expeditionary Learning, High Tech High, Internationals Network for Public Schools, New Tech Network, and New Visions for Public Schools.

[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

New Tech Network is a nonprofit school development organization dedicated to ensuring that all students develop the skills and acquire the knowledge necessary to thrive in post-secondary education, careers, and civic life. Working with districts to build and sustain innovative K-12 public schools, New Tech Network creates a rigorous and engaging school experience that features the intensive use of Project-Based Learning and technology and establishes a positive and engaging school culture. In the seventeen years since its founding, the Network has grown to 133 K-12 schools in twenty-three states and Australia.

## NEW TECH NETWORK STUDENTS EXCEL AT HIGHER-ORDER THINKING

**68%**  
of New Tech Network seniors outperform college freshman with similar backgrounds and abilities

New Tech Network students grow by **77%** more than their non-Network peers using the College and Work Readiness Assessment

## PROJECT-BASED LEARNING

**Project-Based Learning is at the heart of New Tech Network’s instructional approach.** Project-Based Learning is contextual, creative, and shared. Students collaborate on projects that are based on rigorous academic content and require critical thinking, communication, and collaboration to complete. Through extensive professional development and on-site as well as virtual coaching from New Tech Network, teachers learn how to become facilitators of rich, relevant learning. Students work together on projects, ranging in length from two to eight weeks, with teachers serving as coaches, not lecturers. For example, students in

a class on environmental analysis at one New Tech school were assigned a project to design and build a solar oven to be used in developing countries. The groups of students used mathematics to calculate the dimensions of the ovens and chemistry and physics to determine the best conductors of heat. During New Tech Network projects, students often engage with experts in the field: business owners, professionals, or college professors who provide advice and feedback on the problem. Students present their completed designs for review by teachers and advisors. Project-Based Learning gives students the opportunity to not only master academic content, but successfully

## DEEPER LEARNING IN ACTION

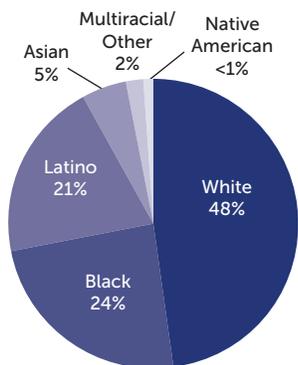


New Tech Network students work together to develop party platforms and develop campaign materials as part of #myparty12, a project to engage students in the presidential election.

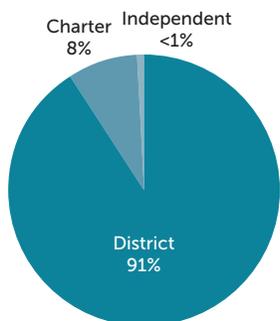
Over several weeks in the fall of 2012, fifteen New Tech Network schools from around the country participated in #myparty12, a national, online project designed to engage students in the 2012 presidential election and help them learn about politics and the role of the media in an election. Participating students were a good representation of the national electorate and came from rural, suburban and urban schools, various ethnic and economic backgrounds, and all aspects of the political spectrum. Students were challenged to develop their own political parties and establish a set of common beliefs, which required collaboration and critical thinking. They developed party platforms, determined ways to affect public policy, and created short campaign videos that detailed their party platforms, which drew upon writing and presentation skills. More than 7,500 New Tech Network students and teachers then voted to select five finalists, who participated in a network-wide virtual debate held on YouTube using Google Hangout, moderated by a veteran public affairs consultant. The project encouraged students to experience what active, engaged citizenship feels like and gave them opportunities to use technology in creative ways to communicate their views and discuss issues with others.

35,000+ STUDENTS in 133 SCHOOLS across 23 STATES

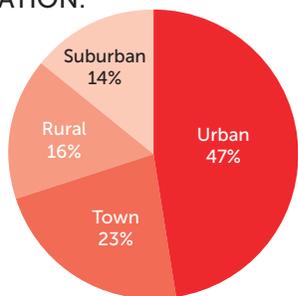
DEMOGRAPHICS:



GOVERNANCE:



LOCATION:



Additional demographics:

**47%** Free or reduced lunch  
**9%** Special Education  
**5%** English-language learners

**Network operator type:**  
Partnership Support Organization and Professional Development Provider

**Founded:** 1996

**Headquarters:**  
1250 Main Street, Suite 100  
Napa, California 94559

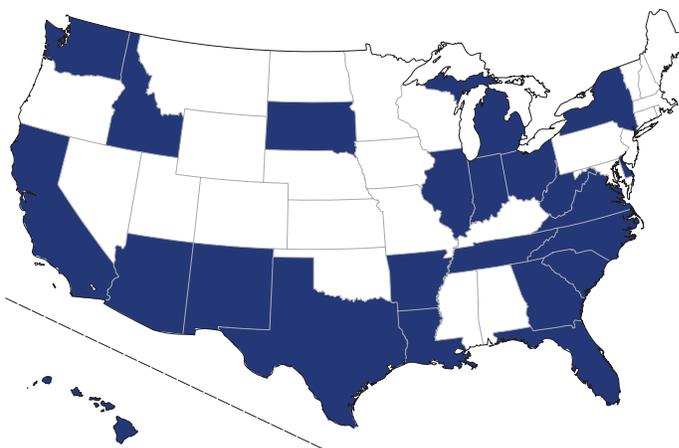
**Website:** [www.newtechnetwork.org](http://www.newtechnetwork.org)

**Phone:** (707) 253-6993

**Email:** [inquiry@newtechnetwork.org](mailto:inquiry@newtechnetwork.org)

**Twitter:** @newtechnetwork

**Learn more about New Tech Network:**  
<http://www.newtechnetwork.org/about/our-results>



apply content in solving a real-world challenge.

**PERVASIVE USE OF TECHNOLOGY TO SUPPORT TEACHING AND LEARNING**

The pervasive use of technology supports New Tech Network’s innovative approach to instruction, culture, and anytime learning. New Tech schools embrace one-to-one computing and access to the Internet anywhere on campus and outside school hours for students using devices such as laptops, iPads, or smart phones. All schools use Echo, New Tech Network’s Web-based learning management system that facilitates Project-Based Learning and provides resources for teachers. Teachers can use Echo to track student progress and grades and also to share curricular materials with other teachers across the network. With access to Echo, the Internet, and the latest in collaborative learning technology, every New Tech Network student becomes a self-directed learner who no longer needs to rely solely on teachers or textbooks for knowledge and direction. Students also engage in cross-site collaboration with other students, an experience that parallels the real-world work of an increasing number of adults in our society.

**A CULTURE OF TRUST, RESPECT, AND RESPONSIBILITY**

Each New Tech Network school maintains a culture that promotes trust, respect, and responsibility. Students and teachers alike take ownership of the learning experience and their school

environment. Working on projects and in teams, students are accountable to their peers and acquire a level of responsibility similar to what they would experience in a professional work environment. Even the physical learning spaces at New Tech schools are designed to support student collaboration, greater communication, and sharing among students and adults.

**DOCUMENTED OUTCOMES WITH A DIVERSE STUDENT BODY**

According to New Tech Network, and based on information provided by the National Student Clearinghouse, an average of 74 percent of students who graduated from New Tech Network schools in 2011 enrolled in postsecondary education, a rate 9 percentage points higher than the national average. Of New Tech’s graduating class of 2010, 90 percent of those attending four-year institutions continued from their freshman year into their sophomore year, a persistence rate 17 percentage points higher than the national average, and 79 percent of those students attending two-year institutions continued past their first year, a rate 46 percentage points higher than the national average. Also, a national comparison sample of the College and Work Readiness Assessment (CWRA), administered by the Council for Aid to Education, found that New Tech students demonstrated 75 percent more growth in measures of critical thinking and writing between their freshman and senior years than a comparison group.

# NEW VISIONS FOR PUBLIC SCHOOLS

## WHY DEEPER LEARNING?

The U. S. education system must prepare students to be engaged citizens and to succeed in the high-skilled jobs that are increasingly required in the global economy. To meet these demands, students will need “deeper learning,” a mix of knowledge, skills, and dispositions that include critical thinking and problem solving, effective communication, collaboration, an academic mindset, and the ability to learn how to learn – all applied to the mastery of academic content.

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[www.deeperlearning4all.org](http://www.deeperlearning4all.org)

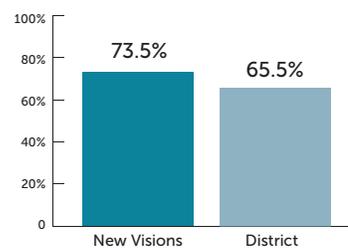
New Visions for Public Schools designs, creates, and sustains schools for New York City’s highest-need students and provides educators with the tools and training they need to analyze student performance, diagnose problems, and design solutions to improve instruction. New Visions uses teacher-led inquiry as a fundamental strategy to translate higher standards into classrooms. In partnership with the New York City Department of Education, New Visions provides operational and instructional support to a network of seventy-five small public schools serving nearly 50,000 students. In addition, New Visions hosts a charter management organization, which operates a growing network of charter high schools in under-resourced neighborhoods.

## A FOCUS ON TEACHERS TO HELP STUDENTS LEARN

New Visions for Public Schools believes that the best way to help students learn is to develop the professional capacity of teachers, principals, and administrators. New Visions supports groups of teachers and administrators—called school inquiry teams—to meet regularly to develop instruction, evaluate their efforts, and modify teaching practices based on assessments of student progress. The “inquiry team” approach builds staff capacity to use student data and lead school improvement efforts and creates a space for teachers to collaborate to identify emerging challenges and implement solutions. The result is a dedicated process for ensuring continuous whole-school improvement.

New Visions and its higher education partner, Hunter College School of Education, place a strong emphasis on

## NEW VISIONS STUDENTS GRADUATE AT A HIGHER RATE THAN THEIR DISTRICT PEERS



teacher and school leader development and certification and offer two special-focus programs. The Urban Teacher Residency Program prepares individuals for careers as teachers of special education and English language arts for grades seven through twelve. The Math and Science Teacher Residency (MASTER) program brings ambitious and rigorous math and science pedagogy to the highest-need classrooms by training prospective teachers under the guidance of an experienced mentor teacher. These



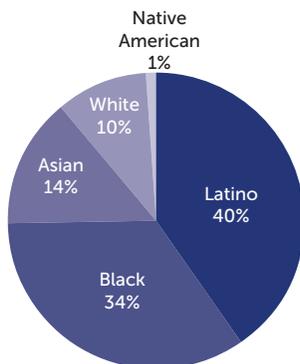
Students at New Visions present their findings on dangerous intersections to real-world experts, including a New York City councilwoman and a transportation advocacy organization.

## DEEPER LEARNING IN ACTION

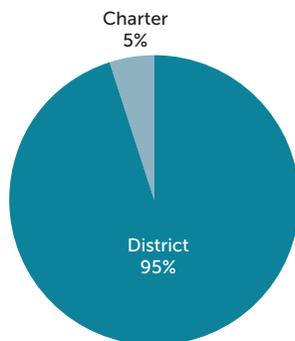
In a New Visions Charter School ninth-grade science class, a physics teacher challenged his students to use physics concepts to explain why certain New York City intersections were dangerous and to suggest improvements. The students learned about physics rules on velocity, speed, and other forces. They conducted research using Google maps, visited the intersections to measure the reaction time, velocity, and speed of cars and pedestrians, used problem-solving and critical thinking skills to recommend changes, and prepared diagrams of their findings. But rather than simply present their findings to each other or to their teacher, they were able to present to real-world experts, including New York City’s leading transportation advocacy organization and a New York City councilwoman. The students eagerly explained their findings to these guest judges, adapting their arguments based on feedback and contesting each concern that was raised. Understanding the physics was only half of the challenge—the students had to be able to present their work and defend their conclusions, drawing upon content knowledge, communication, problem-solving, and critical thinking skills.

44,000+ STUDENTS in 77 SCHOOLS in NEW YORK CITY

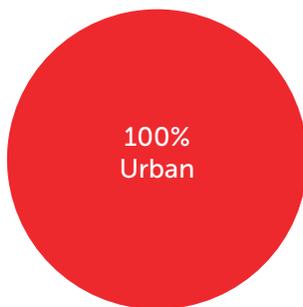
## DEMOGRAPHICS:



## GOVERNANCE:



## LOCATION:



## Additional demographics:

**69%** Free or reduced lunch  
**16%** Special Education  
**10%** English-language learners

**Network operator type:** Partnership Support Organization and Charter Management Organization

**Founded:** 1989

**Headquarters:**  
 320 West 13th Street, 6th Floor  
 New York, NY 10014

**Website:** [www.newvisions.org](http://www.newvisions.org)

**Phone:** (212) 645-5110

**Email:** [jgreenberg@newvisions.org](mailto:jgreenberg@newvisions.org)

**Twitter:** @NewVisionsNYC

**Learn more about New Visions for Public Schools:**

<http://www.newvisions.org/pages/our-impact>



**6**  
ELEMENTARY & MIDDLE SCHOOLS

**13**  
GRADES 6-12

**49**  
HIGH SCHOOLS

**9**  
TRANSFER SCHOOLS

well-trained teachers will be prepared to help all levels of students master rigorous academic content aligned to the Common Core State Standards.

## INTENSE SUPPORT FOR STRUGGLING STUDENTS

School inquiry teams also focus on understanding and improving support for struggling students. They examine three critical questions: (1) Which students are drifting off track? (2) What are the barriers to success? (3) How can students be brought back on track and up to speed? The team identifies students who are struggling and investigates what is holding them back, such as underdeveloped skills, learning gaps, or a lack of social support. Throughout the process, the team uses data to drive its decision-making and identifies best practices by examining research. The teams believe that, by improving outcomes for the lowest-performing students, they will uncover instructional gaps or school-design issues that affect all students in the school. By addressing those deficits that contribute to poor student outcomes, the inquiry teams are able to strengthen instructional, counseling, scheduling, and support systems for all students within their schools, enable more students to succeed and master deeper learning skills.

## STUDENTS ARE CHALLENGED AND MAKE PROGRESS

New Visions schools hold high expectations for their students and help them master the skills needed to be college ready – and they are seeing positive results. New Visions schools require students to take the most challenging combination of courses in which they can be successful. Students practice writing in every core subject with rotating writing assignments, so that they are constantly writing and getting feedback on their progress. They are challenged in their lessons to discover new knowledge and to prove the basis for their arguments in group discussions, a practice that helps them become better writers, problem-solvers, critical thinkers, and communicators. As a result, the number of ninth graders earning eleven credits or more (a positive indicator of progress to graduation) increased by nine percentage points and the number of students passing at least one New York State Regents exam went up by sixteen percentage points. In 2012, New Visions schools had an average four-year high school graduation rate of 73.5 percent, nearly nine percentage points higher than the citywide average of 65.5 percent. Also, an evaluation by Policy Studies Associates found that students in the New Visions high schools outperformed their peers on multiple academic measures.

# APPENDIX C:

## THE HEWLETT FOUNDATION DEEPER LEARNING COMPETENCIES

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### DEEPER LEARNING COMPETENCIES - APRIL 2013

Deeper learning is an umbrella term for the skills and knowledge that students must possess to succeed in 21<sup>st</sup> century jobs and civic life. At its heart is a set of competencies students must master in order to develop a keen understanding of academic content and apply their knowledge to problems in the classroom and on the job.

The deeper learning framework includes six competencies that are essential to prepare students to achieve at high levels.

#### Competencies

1. Master core academic content
2. Think critically and solve complex problems
3. Work collaboratively
4. Communicate effectively
5. Learn how to learn
6. Develop academic mindsets

The foundation of deeper learning is mastery of core academic content, whether in traditional subjects such as mathematics or in interdisciplinary fields which merge several key fields of study. Students are expected to be active participants in their education. Ideally, they are immersed in a challenging curriculum that requires them to seek out and acquire new knowledge, apply what they have learned, and build upon that to create new knowledge.

Cognitive research shows that students learn more when they are engaged in their studies and see them as important. The brain functions by organizing information into databases where things that relate to one another are connected. It determines what is worth holding onto, discarding information it considers useless. At the same time, it organizes for future reference information that is tapped frequently to accomplish important tasks.

The typical worksheet, drill-and-memorize, and test preparation approach to classroom teaching actually makes it difficult for students to retain the myriad bits of information they encounter during the school year. More effective is an instructional method that requires students to use important information repeatedly in complex and meaningful ways such as writing papers or completing projects.

Deeper learning activities should draw upon a clearly defined knowledge base to which students have previously been exposed or to which they will be introduced systematically in the context of their academic work. Activities that are not linked the development of academic content knowledge and skills should be viewed with caution.

In practice, deeper learning prepares students for postsecondary education. They should graduate from high school equipped to:

1. **Master core academic content.** Students develop and draw from a baseline understanding of knowledge in an academic discipline and are able to transfer knowledge to other situations.
  - a. Students understand key principles and relationships within a content area and organize information in a conceptual framework.
  - b. Students learn, remember, and recall facts relevant to a content area.
  - c. Students have procedural knowledge of a content area and know how content knowledge is produced and how experts solve problems.
  - d. Students know and are able to use the language specific to a content area.
  - e. Students extend core knowledge to novel tasks and situations in a variety of academic subjects.
  - f. Students learn and can apply theories relevant to a content area.

- g. Students enjoy and are able to rise to challenges requiring them to apply knowledge in nonroutine ways.
- h. Students apply facts, processes, and theories to real world situations.

Deeper learning activities require learners to draw information from knowledge they have acquired and then do something meaningful with it. Because the brain must develop the internal wiring necessary to process information efficiently in non-routine ways, deeper learning activities should be structured to give students multiple opportunities, over time, to apply knowledge in a range of challenging tasks. In essence, the learner moves from the novice to the expert level within the sphere of knowledge and expertise in question. This requires a range of strategies for processing information in sophisticated ways. Those strategies vary somewhat based on the subject area and nature of the activity, but all involve a commitment to systematic thought and analysis.

2. **Think critically and solve complex problems.** Students apply tools and techniques gleaned from core subjects to formulate and solve problems. These tools include data analysis, statistical reasoning, and scientific inquiry as well as creativity, nonlinear thinking, and persistence.
  - a. Students are familiar with and able to use effectively the tools and techniques specific to a content area.
  - b. Students formulate problems and generate hypotheses.
  - c. Students identify data and information needed to solve a problem.
  - d. Students apply tools and techniques specific to a content area to gather necessary data and information.
  - e. Students evaluate, integrate, and critically analyze multiple sources of information.
  - f. Students monitor and refine the problem-solving process as needed, based on available data.
  - g. Students reason and construct justifiable arguments in support of a hypothesis.
  - h. Students persist to solve complex problems.
3. **Work collaboratively.** Students cooperate to identify and create solutions to academic, social, vocational, and personal challenges.
  - a. Students collaborate with others to complete tasks and solve problems successfully.
  - b. Students work as part of a group to identify group goals.
  - c. Students participate in a team to plan problem-solving steps and identify resources necessary to meet group goals.
  - d. Students communicate and incorporate multiple points of view to meet group goals.
4. **Communicate effectively.** Students clearly organize their data, findings, and thoughts.
  - a. Students communicate complex concepts to others in both written and oral presentations.
  - b. Students structure information and data in meaningful and useful ways.
  - c. Students listen to and incorporate feedback and ideas from others.
  - d. Students provide constructive and appropriate feedback to their peers.
  - e. Students understand that creating a quality final communication requires review and revision of multiple drafts.
  - f. Students tailor their message for the intended audience.

Deeper learning requires a broader range of conscious learning behaviors from students than traditional schoolwork. They must accept responsibility for expending the time and energy necessary to think about a task, select the proper learning strategies, and judge how well those strategies are working. When students encounter difficulty or setbacks, deeper learning requires that they diagnose the type of difficulty they are facing, select appropriate

strategies to resolve the difficulty, and continue forward toward their learning goal. In addition, deeper learning expects students to be able to meet shared goals with others as well as to engage in the self-reflection necessary to continue learning throughout their lives.

**5. Learn how to learn.** Students monitor and direct their own learning.

- a. Students set a goal for each learning task, monitor their progress towards the goal, and adapt their approach as needed to successfully complete a task or solve a problem.
- b. Students know and can apply a variety of study skills and strategies to meet the demands of a task.
- c. Students monitor their comprehension as they learn, recognize when they become confused or encounter obstacles, diagnose barriers to their success, and select appropriate strategies to work through them.
- d. Students work well independently but ask for help when they need it.
- e. Students routinely reflect on their learning experiences and apply insights to subsequent situations.
- f. Students are aware of their strengths and weaknesses, and anticipate needing to work harder in some areas.
- g. Students identify and work towards lifelong learning and academic goals.
- h. Students enjoy and seek out learning on their own and with others.
  - i. Students anticipate and are prepared to meet changing expectations in a variety of academic, professional and social environments.
  - j. Students delay gratification, refocus after distractions, and maintain momentum until they reach their goal.
  - k. Students use failures and setbacks as opportunities for feedback and apply lessons learned to improve future efforts.
  - l. Students care about the quality of their work and put in extra effort to do things thoroughly and well.
- m. Students continue looking for new ways to learn challenging material or solve difficult problems.

Deeper learning requires students to develop positive attitudes and beliefs about themselves in relation to academic work. Academic mindsets are the motivational components that influence students' engagement in learning. In turn, engagement in deeper learning reinforces positive academic mindsets. Students with strong academic mindsets readily put in effort to learn and persist in the face of difficulty. They make use of cognitive, metacognitive, and self-regulatory strategies because they care about learning and are purposeful in doing what is required to succeed.

**6. Develop academic mindsets.** Students develop positive attitudes and beliefs about themselves as learners that increase their academic perseverance and prompt them to engage in productive academic behaviors. Students are committed to seeing work through to completion, meeting their goals, and doing quality work, and thus search for solutions to overcome obstacles.

**I belong in this academic community:**

- a. Students feel a strong sense of belonging within a community of learners and value intellectual engagement with others.
- b. Students understand learning as a social process and actively learn from one another and support each other in pursuit of learning goals.
- c. Students readily engage in the construction of meaning and understanding through interaction with peers.

**I can succeed at this:**

- d. Students trust in their own capacity and competence and feel a strong sense of efficacy at a variety of academic tasks.
- e. Students see themselves as academic achievers and expect to succeed in their learning pursuits.

**My ability and competence grow with my effort:**

- f. Students believe that hard work will pay off in increased knowledge and skills.
- g. Students are motivated to put in the time and effort needed to build a solid knowledge base and to accomplish important goals.

**This work has value for me:**

- h. Students perceive the inherent value of content knowledge and of learning and developing skills.
- i. Students see the relevance of school work to their lives and interests.
- j. Students understand how work they do now will benefit them in the future.
- k. Students know that future learning will build upon what they know and learn today.

# APPENDIX D:

## DEEPER LEARNING RESOURCES

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### WEBSITES

**The Hewlett Foundation Deeper Learning Website**

[www.hewlett.org/deeperlearning](http://www.hewlett.org/deeperlearning)

**Alliance for Excellent Education Deeper Learning Website**

[www.deeperlearning4all.org/](http://www.deeperlearning4all.org/)

**National Association of State Boards of Education (NASBE) Deeper Learning Website**

[www.nasbe.org/project/deeper-learning/](http://www.nasbe.org/project/deeper-learning/)

### REPORTS

**Alliance for Excellent Education: A Time for Deeper Learning**

<http://all4ed.org/wp-content/uploads/2013/06/DeeperLearning.pdf>

**Alliance for Excellent Education: Assessing Deeper Learning**

<http://all4ed.org/wp-content/uploads/2013/06/AssessingDeeperLearning.pdf>

**Education Week: Spotlight on Deeper Learning**

<http://www.edweek.org/media/downloads/files/spotlight-deeper-learning.pdf>

**Getting Smart: How Digital Learning Contributes to Deeper Learning**

<http://gettingsmart.com/wp-content/uploads/2012/12/Digital-Learning-Deeper-Learning-Full-White-Paper.pdf>

**National Research Council (NRC): Education for Life and Work: Developing Transferable Knowledge and Skills in the 21<sup>st</sup> Century**

[http://www.nap.edu/catalog.php?record\\_id=13398](http://www.nap.edu/catalog.php?record_id=13398)

# ENDNOTES

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