AGENDA

Welcome and Recognitions
Julie Evans
Chief Executive Officer
Project Tomorrow

Remarks
Commissioner Jessica Rosenworcel
Federal Communications Commission

Release of National Findings
Highlights from the national report
“Digital Learning 24/7 - Understanding Technology-Enhanced Learning in the Lives of Today’s Students”

Panel Discussion with Students
Elementary, middle, and high school students from public schools in Baltimore (MD), Fairfax (VA), Winchester (VA), and Washington DC.

Audience Q&A
All participants

Speak Up 2014 was made possible through the generous support of Blackboard Inc., BrainPOP, Fuel Education, DreamBox Learning, Schoolwires, Qualcomm Wireless Reach, and Rosetta Stone
Jessica Rosenworcel was nominated for a seat on the Federal Communications Commission by President Barack Obama and on May 7, 2012 was confirmed unanimously by the United States Senate. She was sworn into office on May 11, 2012.

Commissioner Rosenworcel brings a decade and a half of public sector and private sector communications law experience to her position at the FCC. This experience has shaped her belief that in the 21st century strong communications markets can foster economic growth and security, enhance digital age opportunity, and enrich our civic life.

Prior to joining the agency, Commissioner Rosenworcel served as Senior Communications Counsel for the United States Senate Committee on Commerce, Science, and Transportation, under the leadership of Senator John D. Rockefeller IV. She previously served in the same role on the Committee under the leadership of Senator Daniel K. Inouye. In this position, she was responsible for legislation, hearings, and policy development involving a wide range of communications issues, including spectrum auctions, public safety, broadband deployment and adoption, universal service, video programming, satellite television, local radio, and digital television transition.

Before joining the staff of the Committee, she served as Legal Advisor to former FCC Commissioner Michael J. Copps. She also served at the agency as Legal Counsel to the Chief of the Wireline Competition Bureau and as an Attorney-Advisor in the Wireline Competition Bureau.

Prior to entering public service, Commissioner Rosenworcel practiced communications law at Drinker Biddle and Reath.

Commissioner Rosenworcel is a native of Hartford, Connecticut. She is a graduate of Wesleyan University and New York University School of Law. She lives in Washington, DC with her husband Mark, and children Caroline and Emmett.
Julie Evans is the CEO of Project Tomorrow (www.tomorrow.org), an internationally recognized education nonprofit organization that focuses on improving learning opportunities for student through the effective use of STEM resources.

Through a variety of high impact programs and initiatives, Project Tomorrow empowers K-12 students, teachers and parents to have a larger voice in improving education and learning especially in the areas of science, math and technology. Ms. Evans has been CEO of this organization since 1999 and during that tenure has created several innovative initiatives to impact education including the heralded Speak Up Research Project which annually collects and reports on the authentic views of 500,000 K-12 students, parents and educators on education issues each year. Ms. Evans serves as the chief strategist researcher on this important initiative. Over the past eleven years, almost 4 million K-12 students, teachers and parents have participating in the Speak Up Project representing over 35,000 schools from all 50 states, the District of Columbia and around the world.

Prior to this position, Ms. Evans enjoyed a successful 17-year career in national and regional sales and marketing management with Unisys and two education technology startups. Ms. Evans is a graduate of Brown University and is currently a doctoral candidate at the University of California, San Diego in education leadership. She serves on several boards and advisory councils including the Project Tomorrow Board of Directors, Blackboard’s K-12 Advisory Council, the Reaching At-Promise Students Association Advisory Board, and the TechSETS Advisory Board. Ms. Evans is a frequent speaker and writer on K-12 and higher education issues around digital learning. In April 2008, eSchoolNews named Ms. Evans as one of the Top Ten Most Influential People in Education Technology over the past 10 years.
Project Tomorrow®
is the leading global education nonprofit organization dedicated to empowering student voices in education discussions.

Vision
Students with the critical thinking, problem solving and creativity skills needed to compete and thrive in the 21st century.

Mission
To ensure that today’s students are prepared to become tomorrow’s leaders, innovators and engaged citizens of the world.

Activated by
Research based, effective use of STEM resources in both formal and informal learning

RESEARCH
Speak Up Surveys
Evaluation Projects
We regularly provide consulting and research support to school districts, government agencies, business and higher education institutions about key trends and research in science, math, technology and 21st century education.

12 years • 3.9 million participants • 35,000 schools • 50 states

INNOVATION
IN EDUCATION
Innovation in Education Awards
Youth Leadership Summit for Math & Science
We execute two model projects in Southern California to drive economic competitiveness and innovation, and to encourage greater collaboration between all education stakeholders around science, math, and technology. Both projects have been developed for national replication.

9 Award Ceremonies • 24 Award Finalists • 6 Annual Summits • 950 Students

TO MORROW’S
TEACHER INITIATIVE
YouthTEACH2Learn
California Future Educators Association (CFEA)
We stimulate and nurture the development of a new generation of K-12 teachers in math and science by building new, early career pipelines and strengthening linkage between K-12 and higher education around career development.

1,700 High School Students with 40% going on to pursue a STEM teaching career
The Speak Up Research Project is a global initiative of Project Tomorrow (www.tomorrow.org), an internationally recognized nonprofit organization dedicated to the empowerment of student voices in education.

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Students Report Digital Learning Supports Goals of Self-Directed and Collaborative Education, National Survey Finds

Nearly 60 Percent of High School Students Report Using Their Own Mobile Devices in School for Learning

Report Explores Differences Among Students in Blended Learning, Online Learning, STEM Learning and School-Sponsored Mobile Device Environments

Washington, D.C. - The ultimate learning experience for students is both highly collaborative and extremely personalized, supported by mobile devices and digital content, reports Project Tomorrow in their latest Speak Up report.

Over the last few years of the Speak Up survey, more students and administrators have signaled the importance of being able to access mobile devices in the classroom, whether through Bring Your Own Device policy consideration and implementation or through school-provided technology. This year, nearly half of teachers (47 percent) said their students have regular access to mobile devices in their classrooms. Among high school students, 58 percent said they now use their own mobile device at school to support learning activities.

Digital equity and access, particularly outside of school, remains an issue important to administrators. Of note this year, among students using mobile devices provided by their schools, half (51 percent of high school students and 46 percent of middle school students) say that their out of school internet connectivity is through a mobile data plan. Not to be forgotten, there are still students who report no regular access to technology in schools: 13 percent of high school students and 21 percent of middle school students.

This year’s report, Digital Learning 24/7: Understanding Technology – Enhanced Learning in the Lives of Today’s Students, provides landmark findings on the efficacy and value associated with popular digital learning initiatives: blended learning, online learning, school-assigned mobile devices and STEM learning. The views, values and experiences of students taking part in these digital learning initiatives are compared with students in more traditional classroom-based education.

- more -
Students Speak Up, page 2 of 4

“We hope by highlighting the views and values of today’s students, especially those students who are living a digital learning experience, this year’s report stimulates new discussions around the effective use of digital tools, resources and content to support student learning,” said Julie Evans CEO of Project Tomorrow.

This year’s report and several data snapshots and infographics are available here: http://tomorrow.org/speakup/SU14DigitalLearningPlaybook_StudentReport.html

Students in Blended Learning Environments

Whether driven by parental demands for increased personalization or higher goals for student achievement, many administrators are finding that blended learning environments hold great promise. In fact, 45 percent of district administrators in this year’s Speak Up surveys indicate that the implementation of blended learning models within their district was already yielding positive results. (Speak Up used the iNACOL definition of blended learning that includes both supervised learning in school and self-paced learning when students have some level of control over the learning process.)

While 63 percent of students in grades 6-12 agreed that blended learning would be a good way for them to learn, just one-quarter of students indicate that they are currently learning in a blended environment (25 percent of students in grades 6-8 and 23 percent of students in grades 9-12). Elementary schools may also be exploring various types of blended learning. Twenty-one percent of students in grades 3-5 reported regularly watching videos of lessons developed by their teachers outside the classroom (a common practice of flipped learning, which is a version of blended learning).

Students in blended environments use technology more frequently than their peers in more traditional classroom settings. In addition to use in the classroom, these students are also more likely to self-direct their learning outside of school by tapping into mobile apps, finding online videos to help with homework, emailing their teachers with questions and posting content they create online for comment. When asked about the benefits of blended learning, 64 percent of these students in grades 6-12 noted being able to learn at their own pace, 63 percent reported developing creativity skills and 61 percent said collaborating more with their peers.

Students Learning 100 Percent Online

The availability of online learning continues to increase with only 27 percent of high school principals reporting that they are not yet offering any online courses for students. Interest among students continues to grow. Only 8 percent of high school students were interested in fully online learning in 2013. In this year’s report, nearly a quarter (24 percent) said they wish they could take all their classes online. Interest among middle school students in taking at least some classes online is even greater. For example, 44 percent would like to take math classes online, compared to 25 percent of high school students.

“The interest in online learning, at least for some classes, is much greater among students in grades 6 to 8, indicating that there will be even greater demand for these types of classes by the time they reach high school,” noted Evans.

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As expected, digital experiences for students in a 100 percent virtual environment are much different than those in traditional schools. For instance, 72 percent of high school students in virtual schools take online tests, compared with 58 percent of traditional students. Students in virtual environments create fewer PowerPoint presentations (43 percent compared to 70 percent), but they create and post more online content than their peers (28 percent versus 18 percent). Students in virtual classrooms are twice as likely to text message their teachers with schoolwork questions (29 percent) than students in traditional learning environments (15 percent).

**Students with School-Assigned Devices**

Students with a personally assigned mobile device report greater usage of digital tools and resources to support schoolwork than students who do not have regular technology access at school. For instance, 66 percent of students with assigned laptops report creating presentations, compared to 49 percent of students with no assigned technology. Nearly 40 percent of students with assigned tablets report watching teacher created videos, compared to just 21 percent of students without.

Almost three-quarters of students with school-provided devices as well as students with limited or non-existent technology access at school agreed that every student should be able to use a mobile device during the school day for learning.

When it came to particular types of devices, students see the smartphone as the ideal device for communicating with teachers (46 percent) and classmates (72 percent) and for social media (64 percent). Laptops were the preference for middle school students for writing school reports (87 percent), taking online tests (74 percent) and doing Internet research (59 percent).

“I have many apps on my phone that help me on school a lot,” reported a female high school student in Guam. “I have a homework app that organizes all of my homework and reminds me when something is due. Also, I have another app where it is like an online note card and it’s easier for me to test myself on a subject outside of school instead of bringing my papers where I go. On my tablet, there are applications that have almost every subject and teach you lessons for instance, a lesson in algebra 2 or how to balance an equation for chemistry.”

**Students in STEM Learning Experiences**

To explore the relationship between participation in STEM learning and students’ views on digital learning, the report compares data from students in three specific types of STEM environments with students not in these programs. Speak Up identified students participating in after school computer programming (coding) clubs, school sponsored technology support teams and STEM Academies.

Students in all three studied STEM learning environments are more likely than other students to tap into a variety of digital tools and resources outside of school to pursue additional learning opportunities. For examples, 23 percent of STEM Academy students, 18 percent of student in computer programming clubs and 26 percent of students on school tech support teams took a self-paced tutorial or online class outside of school, compared with just 11 percent of other students.
Reflecting a long-standing trend, this year’s data results reconfirm that a gender bias exists in STEM interest. The survey shows middle school girls 38 percent less likely and high school girls 32 percent less likely than their male peers to say they are very interested in a STEM career. As noted here and elsewhere, girls’ interest in STEM drops as they get older. To lessen that declining level of interest, it appears that the sweet spot for engaging and nurturing girls’ interest in computer programming as a gateway to sustained STEM interest may be in elementary school (where 64 percent of girls in grades 3-5 were interested in programming and coding), a place where few such programs exist today.

Fifth Digital Learning Environment
Beyond the four digital learning initiatives explored in this report, today’s students are creating their own learning environment by tapping into digital tools, resources and content to self-direct their learning beyond the sponsorship or facilitation of their teachers to explore academic interests or passions for knowledge.

“I appreciate and value the love of learning; rather than forced learning,” reported a male high school student from Indiana in the survey. “So, outside of school, I very often teach myself about all sorts of things. I am constantly learning arts and music, and advancing my skills in the two. Also, I believe it’s important for people and students to WANT to learn when they leave school... Outside of school, I research and learn about things online like history, philosophy, religion, arts and sciences

“Two big questions emerge from this year’s report: Are we ready to support a new kind of educational ecosystem that acknowledges learning as a 24/7 enterprise, and what do we need to do today to enable and empower these kinds of student-centric digital learning experiences for all students?” asked Evans.

About the Speak Up Research Project and Speak Up 2014
Speak Up is an initiative of Project Tomorrow®, the leading global education nonprofit organization dedicated to the empowerment of student voices in education. Each year, the Speak Up Research Project polls K-12 students, parents and educators about the role of technology for learning in and out of school. This survey represents the largest collection of authentic, unfiltered stakeholder voices on digital learning. Since fall 2003, almost 4 million K-12 students, parents, teachers, librarians, principals, technology leaders, district administrators and members of the community have shared their views and ideas through Speak Up. K-12 educators, higher education faculty, business, and policy leaders report that they regularly use the Speak Up data to inform federal, state and local education programs.

In fall 2014, Project Tomorrow surveyed 431,231 K-12 students, 35,337 parents, 41,805 teachers, 2,485 librarians, 680 district administrators, 3,207 school administrators, 442 technology leaders and 6,653 members of the community representing 8,216 public and private schools from 2,676 districts. Schools from urban (30%), suburban (30 %), and rural (40 %) communities were represented. Just over one-half of the schools (56%) that participated in Speak Up 2014 were Title I eligible schools (an indicator of student population poverty). The Speak Up 2014 surveys were available online for input between October 6th and December 19th, 2014.

The online survey is supported by many of our nation’s most innovative companies, foundations and nonprofit organizations including Qualcomm Wireless Reach, Rosetta Stone, Fuel Education, Blackboard, Schoolwires, DreamBox Learning, and BrainPOP.

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Speak Up Goes to Washington DC

Thursday May 28, 2015

United States Capitol Visitor Center,
Congressional Meeting Room North-CVC 268
12:00PM-1:30PM

Please join us for the release of the Speak Up 2014 National Findings from Teachers, Administrators, and Parents. This is the second of two Congressional Briefings on the data results from the 521,000 online Speak Up surveys submitted from education stakeholders nationwide in fall 2014.

The May 28th briefing will include a presentation of the national findings and a moderated panel discussion with leaders in the education field. This year’s national report, “Digital Teaching 2.0 – Activating Technology-Enhanced Learning in America’s Classrooms” will be distributed to all attendees.

Will you be in Washington D.C. on April 30th?

RSVP for the briefing! Go to the link below to save your seat:
http://www.tomorrow.org/speakup/speakup_congressED_RSVP.html

For more information please visit our website at: http://www.tomorrow.org/speakup/speakup_congressEd.html or contact Jenny Hostert at jhostert@tomorrow.org.
About the Speak Up National Research Project

The Speak Up National Research project annually polls K-12 students, parents and educators about the role of technology for learning in and out of school and represents the largest collection of authentic, unfiltered stakeholder voice on digital learning. Since 2003, almost 4 million K-12 students, parents, teachers, librarians, principals, technology leaders and district administrators have shared their views and ideas through Speak Up. Education, business and policy leaders report that they use the data regularly to inform federal, state and local education programs.

About Speak Up 2015

- **Online surveys will be open for input October 1–December 18, 2015.**

- **Surveys are available this year for:** K-12 students, teachers, librarians, principals, district administrators, technology leaders, parents, business partners and community members. The parent survey is also available in Spanish!

- **Every K-12 school and district is eligible to participate in Speak Up.** Survey access is available to participating schools and districts free of charge. All information is 100% confidential and there is no limit to the number of surveys you can submit.

- Every participating school and district receives **free online access to your own participant data in February 2016** including the national and state data for comparison. Why do your own survey? Speak Up provides you with national data for benchmarking!

- Project Tomorrow annually shares the nationally aggregated data with Congress, the US Department of Education, research organizations and many state governments.

- **Survey question topics include:** learning and teaching with technology, digital games, digital content use, college and career readiness skills, STEM career exploration, student interest in programming and coding, online and blended learning, flipped classrooms, 1:1, BYOD, mobile devices, digital and online textbooks, data privacy, professional development, school-to-home communications, and digital citizenship.

- **Use Speak Up data to:** conduct a needs assessment in your school or district, create a vision for 21st century learning, develop your technology plan and budget or measure the success of your technology investments. Be part of the national Speak Up momentum!

Together, let’s work towards leveraging technology to promote enhanced learning in our K-12 schools.

Speak Up is an initiative of Project Tomorrow, the leading global education nonprofit organization focused on empowering students to have a greater voice in their education. To learn more about Speak Up, please visit [www.tomorrow.org/speakup](http://www.tomorrow.org/speakup) or contact Jenny Hostert at jhostert@tomorrow.org, 949-609-4660 x17.
DO YOU KNOW?

Ten Things Everyone Should Know about K-12 Students’ Digital Learning

Students Speak Up on the following...

#1. LEARNING VIA YOUTUBE
- 40% of students are finding online videos to help with their homework and 28% say they regularly watch videos created by their teachers.
- Not being able to access social media is the biggest barrier with using technology at school.

#2. STUDENTS ARE MOBILISTS!
- Personal access to mobile devices has reached several significant tipping points: 82% of 9-12th, 68% of 6-8th, and 46% of 3-5th graders are smartphone users now.

#3. MORE GAMES PLEASE
- Almost two-thirds of students want to use digital games for learning in school.
- Why?
  - Across all grades, students believe that games make difficult concepts easier to understand.
  - 67% say that using technology within learning increases their engagement and interest in the subject content.

#4. STUDENTS WANT TO CODE! ESPECIALLY GIRLS!
- 53% say YES to coding as a class or after school activity with 1 in 5 being Very Interested in learning how to code.
- Amongst girls, 64% of 3-5th and 50% of 6-8th graders want to code.

#5. TEACHER – I HAVE A QUESTION!
- Students are regularly using digital tools outside of school to communicate with their teachers about schoolwork questions:
  - 48% by email
  - 16% by texting

#6. TWEET-TWEET?
- 46% of 9-12th graders are Twitter users now – 4 times more than in 2011 when only 11% were tweet-tweeting.

#7. I’LL TAKE MY LEARNING MOBILE
- 75% of students think every student should have access to a mobile device during the school day to support learning.
- Many are already doing that:
  - 58% are using their own smartphone for classwork
  - 47% are taking photos of class assignments or textbook pages

#8. TAKING MATH CLASS ONLINE
- 42% of 6-8th graders say taking an online class should be a requirement for graduation. And what class would they like to take online? Math!

#9. CHANGE IN SOCIAL MEDIA USE
- Students are interacting less with traditional social networking sites: 41% of students in grades 6-12 say they never use Facebook.
- But spending more time with content creation sites: 44% say they use YouTube all the time!

#10. LAPTOP, TABLETS, SMARTPHONES, OH MY! GOODBYE 1:1!
- Different tasks = different tools! Laptops top students’ list for writing a report, taking online tests and working on group projects.
- Smartphones are #1 for connecting with teachers, accessing social media, and watching a video.

Source: Speak Up 2014 National Research Project Findings – the results of the authentic, unfiltered views of 431,231 K-12 students nationwide. Learn more about Speak Up and other research findings from Project Tomorrow on digital learning at www.tomorrow.org.
How important is it that students have access to mobile devices to help with schoolwork at school? 75% of students in grades 6-12 say it is important for them to use mobile devices at school.

35,000 PARENTS

With 92% of parents regularly using a smartphone, it is no surprise that parents understand the benefits of mobile learning and want their children to learn in a mobile-enabled classroom.

51% of parents say they want their child in that type of class.

3,800 ADMINISTRATORS

Principals’ perspectives on the value of mobile devices are changing for the positive.

58% of principals report that they have implemented tablets in their school with positive results -- an increase of 41% in just one year.

53% of principals say YES.

How likely is it that you would buy a device for your child to use at school if it was allowed by the school? 58% of parents say that is likely. 14% of parents say they have already purchased a mobile device for their child to use at school.

WHAT ARE THE BENEFITS OF MOBILE LEARNING?

Access to online textbooks (70%)
Ability to review class materials after school (67%)
Improves communication between school and home (59%)
Increases student engagement (57%)
Extends the learning process beyond the end of the school day (49%)

MOBILE LEARNING IN THE UNITED STATES 2014

42,000 TEACHERS

As a result of using mobile devices in their personal lives, teachers see great potential in these devices to impact learning experiences. But the majority do not have regular access to devices to use in their class -- and they worry about equity issues with BYOD models.

58% say it is VERY important!

50% of principals say it is important

86% of principals say it is already their policy.

24% say they are already using BYOD.

29% say it is likely this year.

53% of principals say YES.

Do you or will you allow your students to use their own mobile devices at school to support learning this year?
DIGITAL LEARNING 24/7
UNDERSTANDING TECHNOLOGY-ENHANCED LEARNING IN THE LIVES OF TODAY’S STUDENTS
Speak Up 2014 National Findings from K-12 Students
Introduction

“I have many apps on my phone that help me on school a lot. I have a homework app that organizes all of my homework and reminds me when something is due. Also, I have another app where it is like an online note card and it’s easier for me to test myself on a subject outside of school instead of bringing my papers where I go. On my tablet, there are applications that have almost every subject and teach you lessons for instance, a lesson in algebra 2 or how to balance an equation for chemistry. I find all of these apps very helpful because of technology.”

Female student, Kennedy High School, Guam

For today’s students, learning at its best is a 24/7 enterprise comprised of a seamless set of engaging interactions with teachers, classmates, parents, and experts, some near and some far away. These interactions happen both in the traditional physical worlds of classrooms, libraries, and community centers, as well as in the virtual spaces of social media, massively multiplayer online games, and online classrooms. The ultimate learning experience is highly collaborative and yet, extremely personalized. The result of a deep immersion in this vision of education is a love for learning in its purest sense, and the development of a personal ethos within our students for the type of life-long, life-wide and life-deep learning espoused by the 2010 National Education Technology Plan and many education thought leaders over the past few years.

This student vision of learning is inherently predicated on an understanding of the potential power of collaborative learning, the immense capacity of new learning environments when they are un-tethered to traditional methodologies or resources, and the unparalleled relevancy of learning experiences that marry academic content with real world context. As with most things in education, getting from vision to actualization is often a difficult and circuitous route. Such has been the case for demonstrating the capabilities of technology to address current education challenges. With an increased sense of urgency today due to the twin challenges of new curriculum standards and increased interest in preparing students with the skills they need for college, career and life success, many education leaders are re-visiting the potential of digital tools, resources, and content to transform the learning environment.

For the past twelve years, Project Tomorrow’s® annual Speak Up Research Project has provided schools and districts nationwide and throughout the globe with new insights into how today’s students want to leverage digital tools for learning based upon the authentic, unfiltered ideas of students themselves. Each year, education, policy, research, and business leaders leverage the Speak Up findings to understand the trends around students’ use of technology, and how schools and communities can better serve the learning needs of today’s digital learners. Speak Up reports over the past few years have focused on connecting the digital dots for learning, mapping a personalized learning journey, and moving from chalkboards to tablets as part of a digital conversion effort. With this year’s national report on the views
of 431,231 K-12 students representing over 8,000 schools and 2,600 districts in the United States and around the world, we focus our attention on the lived experiences of students immersed in daily digital learning experiences. From the Speak Up database, we extract the views and ideas of students in four specific types of learning environments to comprehend how their experiences differ from students in more traditional classroom-based education. The four learning environments examined include:

- **Students who are using school provided laptops, tablets, or Chromebooks to support their education**
- **Students in blended learning environments where instruction is a mix of class time and online time**
- **Students whose learning is 100 percent online or virtual**
- **Students participating in STEM learning experiences such as specific STEM academies, school tech support team, or computer programming/coding clubs**

Using data from students who identify as belonging to these four categories, this year’s report provides landmark findings on the efficacy and value associated with various popular digital learning initiatives. Specifically, we examine the activities, attitudes, and aspirations of these students, today’s digital learners, as a laboratory study to shed new light on the potential of these learning models to fulfill the promise of transformative education through digital conversions. As noted in the quote from the high school student in Guam, today’s students are leveraging a wide range of digital tools to support their learning, both in school and out of school. Our analysis of the Speak Up 2014 data therefore yields the following four key findings:

1. When students have access to technology as part of their learning, especially school-provided or enabled technology, their use of the digital tools and resources is deeper and more sophisticated.

2. Consequently, students who are effectively using digital tools to transform their learning experience place a higher value on the importance of technology as part of their personalized education process.

3. Students connect the use of technology tools within learning to the development of college, career, and citizenship skills that will empower their future capabilities.

4. The ability to use technology within school or class environments engages students in active learning and establishes a foundation for the development of a personal ethos of self-directed, independent learning.

We hope that by highlighting the views and values of today’s students, and especially those students who are living a digital learning experience, this year’s report stimulates new discussions around the effective use of digital tools, resources, and content to support student learning. To do so, we are proud to introduce you to the incredibly interesting and provocative 24/7 digital lives of today’s learners.
Students’ Experiences in Mobile Learning Environments

With the introduction of a variety of device types into the marketplace, anytime, anywhere learning enabled by the use of a mobile device such as a laptop, tablet or more recently, a Chromebook, has ignited the imagination of educators, parents, and students. Today, with wireless and conveniently-sized devices, students have personalized access to a plethora of learning tools, resources, and content while in school, at home, or even enroute to school or on the ballfield. Learning is no longer limited to only 8a.m. to 2:30p.m. each day, but rather can be extended and amplified beyond traditional school day hours. This benefit is particularly appealing as the nation discusses how to infuse additional academic rigor into the school curriculum, and at the same time, prepare students with the workforce skills they need to compete in the global economy. Consequently, many districts over the past few years have adopted various types of mobile learning initiatives within their schools.

To support these goals, districts have also made significant investments equipping their students with school-provided mobile devices, enhancing Internet connectivity on school campuses, modifying policies to allow students to use their own devices, and adopting mobile-enabled content to support instruction. Accordingly, 47 percent of K-12 teachers in this year’s Speak Up data findings report that their students have regular access to mobile devices in their classrooms.

The issue of digital equity and access, particularly in terms of out of school access to the Internet, is top of mind for many education leaders today. School and district technology leaders (47 percent) cite digital equity and students’ access to the Internet outside of school as a most challenging issue this year, and interest in providing students with mobile learning experiences that extend beyond the school day continues to rise amongst education leaders. In many cases, school provided devices, especially when equipped with 4G or wifi capabilities may be addressing at least part of the digital equity challenge. Amongst students who are using school laptops, tablets, and Chromebooks, 51 percent of high school students and 46 percent of middle school students note that their out of school Internet connectivity is through a mobile data plan. As we aim to address what Federal Communications Commissioner Jessica Rosenworcel calls the “homework gap,” these findings provide education leaders with a new awareness of the need for a multitude of connectivity options, both on campus and within the community.

Increases in student interest in mobile learning have mirrored their escalating personal access to laptops, tablets, and smartphones since the beginning of the Speak Up research in 2003.

Table A: What type of mobile devices do you use at school?

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<th>Gr 6-8</th>
<th>Gr 9-12</th>
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<tr>
<td>My own device</td>
<td>23%</td>
<td>58%</td>
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<tr>
<td>School laptop</td>
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Verifying the forward-thinking perspective of our students, students in 2003 ranked school-provided mobile devices as the number one technology component of their ultimate school. Today, the students’ vision for their ultimate learning environment follow the dimensions of current mobile learning capabilities; giving higher rankings for campus-wide Internet access (83 percent) and the ability to use their own mobile device at school (72 percent) rather than school-provided devices (55 percent). For most students today, their wish to use their own devices to connect to school servers anywhere on campus remains more visionary than reality. However, the experiences of students who are regularly using school provided laptops, tablets, and Chromebooks provides an interesting glimpse into the potential and future of mobile learning experiences. To help education leaders understand the mobile learning experience, we therefore examine the activities, attitudes, and aspirations of those students who are assigned school-owned mobile devices (Table A) to support their instruction as well as those students who do not have regular access to technology at school (13 percent of students in high school, 21 percent of students in middle school).

Students with a personally assigned mobile device report greater usage of digital tools and resources to support schoolwork than students who do not have regular technology access at school or, in some cases, students whose primary access is through a computer lab, school library, or media center. Chart A provides a snapshot of the differentiation in middle school student technology use based upon their access to three popular types of mobile devices as well as that
usage compared to students who do not have classroom technology access.

Providing a school mobile device to middle school students definitely changes the calculus of usage. Students with a mobile device, be it a laptop, tablet, or Chromebook, are more likely to use digital tools and resources both in school and out of school, than students without regular in-classroom access. The differentiation of usage by device type is minimal except for a few noteworthy exceptions. As would be expected, students with Chromebooks are more likely to use Internet-based services such as Google drive, Dropbox, or Turnitin.com (71 percent). More students with tablets report taking photos of school assignments or textbook pages (43 percent) than students with school-assigned laptops (22 percent), underscoring the value of tablet features and functionality to change the way we do things.

The debate around which type of mobile device is the best for student learning has not abated this year. While educators deliberate the conceptual benefits of laptops vs. tablets and tablets vs. Chromebooks based upon the functional specifications and impact on school device management procedures, students who are using these devices every day for learning activities are becoming more informed and discriminating end-users. Not surprisingly, familiarity with using a device as a learning tool breeds a stronger affinity for that particular device as a preference in most
cases. For example, students in grades 6-8 who are assigned tablets by their school are more likely to say that the tablet is the best device to take notes (50 percent), create videos (44 percent), or read an online textbook (41 percent) than students assigned a laptop as illustrated in Table B.

However, in some cases, students’ preferences transcend the type of device assigned by their school, and most likely reflect the experience that they have with these devices in their personal lives. Across the board, students see the smartphone as the ideal device for communicating with their teachers (46 percent) and classmates (72 percent) and for social media usage (64 percent). Additionally, laptops were the preference of middle school students, regardless of the type of device assigned to them, for writing school reports (87 percent), taking online tests (74 percent), and doing Internet research (59 percent). Students who are regular laptop users demonstrated the strongest preference for using that type of device for school tasks.

Despite the seeming relationship between students’ use of a particular mobile device and their preference for using that device for school activities, students in general, either with or without device access at school, endorse the idea of mobile learning. With little differentiation, almost three-quarters of students with school provided laptops, tablets, or Chromebooks as well as students with technology access that is limited or non-existent at school, believe that every student should be able to use a mobile device during the school day for learning. And their parents and administrators agree as well. The appeal is universal. A key Speak Up 2014 takeaway therefore is that while students using mobile devices in school are demonstrating the efficacy of these tools for learning, students in classrooms all over the United States would like the opportunity to experience a mobile learning environment for themselves.
Students’ Experiences in Blended Learning Environments

As demonstrated by the most recent Speak Up reports, school and district administrators have a new sense of urgency regarding how to effectively leverage digital tools and resources to impact student outcomes. Whether driven by parental demands for increased personalization of the learning experience or higher goals for student achievement including explicit preparation for college and career success, many administrators are finding that blended learning environments hold great promise for addressing these needs. In fact, 45 percent of district administrators in this year’s Speak Up surveys indicate that the implementation of blended learning models within their district was already yielding positive results.

Though this Speak Up finding is highly compelling, it is also widely recognized that the phrase “blended learning” can have multiple definitions and interpretations within a classroom environment. For purposes of examining the perceptions and views of students in blended learning environments, the Speak Up surveys this year leveraged the landmark work of iNACOL and the Christensen Institute to identify the core components of blended learning that would differentiate this approach from the occasional use of technology in the classroom or a fully online learning experience. The defining characteristics of blended learning are that it is a hybrid learning approach that includes both supervised learning in a traditional brick-and-mortar school and self-paced learning that is online when students have some level of control over time, place, path, and pace of their learning.

Approximately one-quarter of middle school and high school students indicate on this year’s Speak Up surveys that they are learning in a blended environment that includes these core components (25 percent of students in grades 6-8, 23 percent of students in grades 9-12). Students from a variety of communities (rural, suburban, urban) are engaged with blended learning at similar levels. Only a slightly smaller percentage of Title 1 middle schools and urban high schools are implementing this approach for their students, based upon student reporting of their learning environment. Evidence also suggests that elementary schools are exploring various blended learning models. For example, one-fifth of elementary students in grades 3-5 (21 percent) note that they are regularly watching videos of lessons developed by their teachers outside of the classroom (a common practice within flipped learning, which is a version of blended learning).

Administrators’ interest in blended learning is compatible with students’ interest in this innovative learning model as well. When presented with the definition and core components of blended learning, almost two-thirds of students in grades 6-12 (63 percent) agree that this would be a good way for them to

Administrators say these digital learning approaches yield positive achievement results:

- Digital content within instruction (61%)
- Digital or online textbooks (51%)
- Blended learning models (45%)
But, what is it about blended learning that is earning the attention and interest of these students? And how can administrators interested in this approach ensure that they are maximizing the benefits of blended learning as an agent for transforming teaching and learning in their schools?

To address these important questions, let’s examine the activities, attitudes, and aspirations of students who are currently learning in a blended learning environment (the 24 percent of students in grades 6-12 identified through the Speak Up survey data) to provide new insights for schools and districts interested in these new digital learning approaches. As noted in earlier Speak Up reports, today’s students often function as a “digital advance team” for the rest of us, paving a new path for understanding the potential of digital learning. This is especially true for today’s students who are in blended learning classrooms.

Students’ use of various digital tools and resources to support schoolwork provides a thought-provoking glimpse into the differences between learning experiences in a blended classroom and in a brick and mortar classroom where technology use is minimal or sporadic. As noted in last year’s Speak Up report, The New Digital Learning Playbook: Understanding the Spectrum of Students’ Activities and Aspirations, students’ use of technology can be categorized by both the driver of that usage (teacher-facilitated or student self-directed) and the location of the usage (at school or at home). In several ways, we see that blended learning environments transform the way technology is employed both in the classroom by the teacher, and by the student outside of school.

The students in blended environments use technology more frequently than peers in traditional classrooms. This is most likely due to
their enhanced access to certain digital tools and resources both in and out of the classroom, and how the teacher is empowering student-initiated technology usage. Students in blended learning environments are more likely to use online or digital textbooks, take online tests, watch teacher-created videos, and contribute to class blogs or discussion boards than their peers in traditional classrooms (Chart B). Additionally, these students are also more likely to self-direct their learning outside of school by tapping into mobile apps, finding online videos to help with homework, emailing their teacher with questions, and even posting online content they create for public commentary (Chart C).

This increased usage of technology by students in blended learning classrooms translates into strong value propositions around the use of digital tools within learning. When asked to identify the benefits associated with digital learning, the majority of students in the blended environments note a strong linkage between technology usage within learning, the personalization of their learning process, and the development of college and career ready skills (Table C).

For many education leaders, the blended learning environment seems to marry the best of both worlds – the engaging aspects of online learning with the personalized touch of the classroom teacher. Yet, just as K-12 schools and districts start to embrace blended learning, the variations in model and approach continue to multiple. While the flexibility and adaptability of blended learning is a positive attribute, those same characteristics make it difficult to assess quality and impact. Bringing the voices and views of students who are experiencing blended learning firsthand into the discussion adds authenticity and relevancy to the current discussions. A key takeaway from this year’s Speak Up data findings is that students in blended learning environments directly link the use of digital tools, content, and resources to important learning goals. As district and school leaders explore various models of blended learning, the insights and experiences of students in blended learning environments provide credence to the short term and longer-term validity of that specific learning culture.

<table>
<thead>
<tr>
<th>Table C - Benefits of digital learning</th>
<th>Views of middle school students in blended learning environments</th>
</tr>
</thead>
<tbody>
<tr>
<td>I am able to learn at my own pace</td>
<td>64%</td>
</tr>
<tr>
<td>I am developing creativity skills</td>
<td>63%</td>
</tr>
<tr>
<td>I collaborate more with my classmates</td>
<td>61%</td>
</tr>
<tr>
<td>I have more control over my learning</td>
<td>58%</td>
</tr>
<tr>
<td>I gain a better understanding of the class materials</td>
<td>56%</td>
</tr>
<tr>
<td>I am developing critical thinking and problem solving skills</td>
<td>54%</td>
</tr>
<tr>
<td>I am learning in a way that better fits my learning style</td>
<td>53%</td>
</tr>
<tr>
<td>I spend more time mastering a skill or learning something</td>
<td>51%</td>
</tr>
</tbody>
</table>

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Students’ Experiences in Virtual Learning

In 2012, the United States Department of Education defined virtual or fully online education as a learning environment where instructional materials and teacher-student and student-student interactions are facilitated over an Internet connection. As with blended learning, today’s definition includes a broader range of environments for K-12 students ranging from a “School of One” type experience where a student’s online curriculum is curated exclusively to meet his/her individualized learning needs to the Massively Open Online Courses (MOOCs) with class lectures delivered online to hundreds and even thousands of students simultaneously.

Why offer online learning options to your students? Principals’ perspectives on the benefits:

- Keeps students engaged in school (69%)
- Provides academic remediation options (62%)
- Offers instruction for homebound students (58%)
- Provides scheduling alternatives for students (49%)
- Options for advanced coursework (47%)
- Solution for hard to staff subjects (44%)

From one to many, the common denominator is the online delivery mechanism. Though K-12 education has a long way to go to achieve Clayton Christensen’s prediction of 50 percent of all high school courses offered online by 2019, the availability of online learning as a viable choice for students is increasingly becoming a reality. According to the 2014 Keeping Pace with K-12 Digital Learning report, 30 states now have a fully online school that is available statewide, and 26 states offer students enrollment in a state sponsored virtual school. High school principals report offering students online courses in a wide variety of subjects including the core subjects of Math (51 percent), English (54 percent), Science (49 percent), and Social Studies/History (54 percent). Only 27 percent of high school principals on this year’s Speak Up surveys acknowledged that they are not yet offering any online courses to their students. For the principals, the top benefits associated with online learning for their students focus on addressing individualized student needs in a highly effective, efficient, and engaging manner.

Students are increasingly interested in an online learning environment. While only 8 percent of high school students indicated a preference for a fully online learning experience in 2013, 24 percent of the high school students in the 2014 Speak Up polling declared that they wish they could take all of their classes online. Students are particularly interested in taking an online class in their core subjects of Math, English, Science, and Social Studies/History, but students are also interested in virtual learning for computer science/programming and world languages with particularly high interest in those subjects amongst middle school students as illustrated in Chart D.

As many districts and schools have experienced, implementation of online learning for students has its challenges, however. Many education leaders express concerns about the quality of the students’ learning experience in a fully online or virtual environment. To gain an enhanced
understanding of that experience, and to provide valuable insights to schools and districts implementing new models of online learning, the 2014 Speak Up data from students who are learning online exclusively is particularly meaningful.

As one would expect, the digital experiences of the students in fully online learning environments are quite different from students in traditional brick and mortar classrooms. **High school students in virtual schools are taking significantly more online tests (72 percent vs. 58 percent) and creating less PowerPoint presentations as a school assignment (43 percent vs. 70 percent) than other students.**

While today’s typical high school student uses their mobile device to snap a photo of some textbook pages to read later, the online student is already using online textbooks and content and thus this adaptive behavior is not necessary. **The online students are watching more videos created by their teachers (41 percent) and over a quarter of them say they are regularly posting self-created content online for peer or public commentary and review (28 percent).** Only 18 percent of high school students in brick and mortar schools are doing the same.

Reflecting current trends, the online learner, like their peers in other learning environments, uses a wide range of social media tools for daily interactions with friends, classmates, and even teachers. Interestingly, the online learners are more likely to use social messaging apps, video messaging, and participate in special interest forums. **In fact, students in virtual schools are twice as likely to text message their teacher with schoolwork questions (29 percent) than students in traditional learning environments (15 percent).**

Over one-third of middle school online learners (37 percent) and 46 percent of online learners in high school say that as a result of using technology they communicate more with their teachers. Similarly, the students note that they are collaborating more with classmates as well.
Given that virtual learning environments rely upon technology as the primary delivery mode for instruction and interactions, they’re an interesting microcosm for examining the relationship between digital learning and student engagement. Whereas a majority of both middle and high school students say that using technology in their classes increases their interest and engagement in what they are learning, students in virtual learning environments express stronger agreement with that premise. For example, one third of Grade 6-8 online learners (35 percent) strongly agree that technology enhances their engagement in learning compared to 30 percent of students in traditional learning environments.

Do you think that students should take a fully online or virtual class prior to graduating from high school in preparation for college/career success?

<table>
<thead>
<tr>
<th>Agreed:</th>
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</thead>
<tbody>
<tr>
<td>Parents</td>
</tr>
<tr>
<td>District Administrators</td>
</tr>
<tr>
<td>Students</td>
</tr>
<tr>
<td>Students in virtual schools</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>50%</td>
</tr>
<tr>
<td>59%</td>
</tr>
<tr>
<td>36%</td>
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<tr>
<td>55%</td>
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</table>

As education and policy leaders continue to debate the merits of online learning as an alternative learning environment for K-12 students, many districts and states are instituting new policies that mandate students must have an online learning experience as a high school graduation requirement. The driver for these policies appears to be a strong interest in ensuring that today’s students are well prepared for college and career success. With more college instruction facilitated through online courses and employers calling for sophisticated technology skills in most new jobs, it makes sense that the implementation of these new policies is resulting in greater interest in online learning in many communities. A majority of parents (50 percent) and school district administrators (59 percent) agree with these policies. And while students in grades 6-12 have a lukewarm response to the idea of new graduation requirements of any kind, a majority of the students in online learning classes agree that every student should have an online learning experience to prepare them for the demands of college and future jobs, underscoring the value to their own education of a virtual learning environment.

In many ways, students in virtual or fully online classes are experiencing digital learning in its purest form. They are in fact our test bed for understanding how the inclusion and integration of digital tools, content, and resources can transform learning processes and outcomes. When we examine these online learners’ views on online textbooks or social media tools, we are gaining unprecedented access into what may evolve as the future of education. A critical takeaway from this year’s Speak Up research is that the online learners so highly value their unique learning experience in virtual schools and classes that they believe that other students should also benefit from online learning and that state, district, and/or school policies should be in place to support that transformative change. There is no clearer statement of value than a desire to spread the wealth of the benefits to others.
Students’ Experiences in STEM Learning Environments

A key component of the national momentum around college and career preparation has been the confirmation of the importance of science, technology, engineering and math (STEM) educational opportunities for all students. With leadership from policymakers, federal agencies, corporations, and foundations, multitudes of new programs and initiatives are underway to expose students to STEM fields and provide support in the preparation for jobs and careers in those fields.

While a common definition of “STEM education” is still evolving, a few attributes are universally recognized as characterizing a STEM learning experience. STEM education is inherently interdisciplinary with a strong emphasis on the application of rigorous academic knowledge to real-world problem solving. That every student needs a solid foundation in the core subjects of science and math is undeniable for education leaders, especially given the new demands for a competitive workforce. However, connecting the dots from rigorous STEM academic content to real-world, contextual understanding is often a difficult leap for schools to actualize in practice. Given the difficulty associated with this task, evidence about the impact of these STEM learning experiences on students’ valuations of digital learning is also in its infancy.

To explore the relationship between participation in STEM learning and students’ views on digital learning, let’s examine the Speak Up data from students in three specific types of STEM learning environments: students participating in after school computer programming (coding) clubs, students that are members of school sponsored technology support teams, and students attending designated STEM academies. The views of these students on digital learning in particular can inform new initiatives and programs. Before examining the data, however, it is important to note that within these environments boys are more heavily represented, with the most striking difference between girl and boy participation existing in computer programming clubs and student technology support teams. Only one-third of middle school participants in STEM learning environments are girls (38 percent). A similar pattern exists in high schools. The margin of difference is smaller in the STEM academies, but boys still outnumber girls by 11 to 16 percentage points. As discussed in previous Speak Up reports, gender continues to define both usage and aspirations for digital learning in many ways. Understanding the behaviors and attitudes of both girls and boys in STEM learning environments can help education leaders design and implement more equitable educational and career preparation experiences.

<table>
<thead>
<tr>
<th>Type of STEM Learning Environment</th>
<th>Students Gr 6-8</th>
<th>Students Gr 9-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Programming Club</td>
<td>9%</td>
<td>6%</td>
</tr>
<tr>
<td>Student School Tech Support Team</td>
<td>6%</td>
<td>4%</td>
</tr>
<tr>
<td>STEM Academy</td>
<td>12%</td>
<td>10%</td>
</tr>
</tbody>
</table>

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Speak Up reports have long documented the gender disparity in STEM career interest. Reflecting a long-standing trend, this year's data results reconfirm that bias with middle school girls 38 percent less likely and high school girls 32 percent less likely than their male peers to say they are very interested in a STEM career (Chart E).

New Speak Up data this year also reveals a groundbreaking trend regarding girls’ interest in learning computer programming or coding. Sixty-four percent of girls in grades 3-5 indicate interest in taking a computer programming class or being part of an after school coding club, while only 50 percent of middle school girls and 38 percent of high school girls share that common interest. To lessen that declining level of interest, it appears that the sweet spot for engaging and then nurturing girls’ interest in computer programming as a gateway to sustained STEM interest may actually be in elementary school, a place where few such programs exist today. So, how do we change or alter the direction of such STEM interest trajectories? And what should administrators interested in STEM learning know to ensure that they are maximizing the benefits of these programs as agents for transforming students’ school experiences and self-efficacy as life-long learners?

Three research findings emerging from this year’s Speak Up data provide new insights into how to address both questions.
As we think about how to make STEM learning opportunities available to more students, these timely Speak Up results provide valuable input into the learning lives of students immersed in STEM learning on a day-to-day basis. The key takeaway from this year’s Speak Up findings is that students engaged in STEM learning place a high value on the efficacy of that learning environment to support their future dreams and aspirations and correspondingly, they are also more likely to exhibit self-directed learning behaviors outside school when exploring STEM resources. If our national goal is to create a curious, inquisitive, self-reliant STEM workforce, then these emerging innovators are already setting the pace for that kind of lifelong, life wide and life-deep learning.

### Ending Thoughts

“I appreciate and value the love of learning; rather than forced learning. So, outside of school, I very often teach myself about all sorts of things. I am constantly learning arts and music, and advancing my skills in the two. Also, I believe it’s important for people and students to WANT to learn when they leave school; just about whatever they can fill their brain with. ‘Outside of school, I research and learn about things online like history, philosophy, religion, arts and sciences.’”

Male student, Center Grove High School, Greenwood, IN

Contrary to popular media reports or coffee shop gossip, today’s students are incredibly interested in learning. While they may not always be interested in typical classroom instruction, they are very engaged when learning mirrors the holy trinity of the student vision for a 21st century educational experience:

- learning that is socially-based and collaborative,
- learning that is untethered from the traditional constraints or limitations of education institutions, and
- learning that is digitally rich in context and relevancy.

As evidenced by the findings from this report, there is a fifth learning environment beyond
mobile, blended, virtual and STEM that is effectively leveraging technology for learning every day, and also meeting the unique needs of today’s digital learners. Too often, unfortunately, this fifth learning environment is unknown or misunderstood by educators and parents, and yet it holds great potential for helping students develop the skills needed for future success. With increasing frequency, today’s students are tapping into digital tools, resources, and content to self-direct their learning beyond the sponsorship or facilitation of their teachers to explore academic interests or passions for knowledge. Per the voices of these “Free Agent Learners” as we call them, today’s students are increasingly using a wide range of technology tools outside of school to:

- Reinforce learning concepts introduced in school, but at a preferred pace for the individual student
- Present academic content in a learning modality best suited for the student’s learning style
- Provide an avenue for the student to explore academic topics and ideas to a deeper level than in the classroom
- Challenge the student with new ideas and the development of different perspectives on acquired knowledge

- Develop college and career ready skills such as critical thinking, problem solving, and creativity
- Provide a digitally relevant way for today’s student to explore careers in a low risk, highly engaging and personalized environment

While students’ motivations for and outcomes from these self-directed learning experiences demand additional examination, the importance of this emerging digital learning environment in today’s students’ 24/7 learning lives cannot be underestimated. Most notably for education leaders poised to implement mobile, blended, virtual, or STEM education initiatives, it is critically important to understand that today’s school no longer has a monopoly on learning experiences, even with the implementation of any of the reported innovative digital learning initiatives. Thus, two big questions emerge from this finding. Are we ready to support a new kind of educational ecosystem that acknowledges learning as a 24/7 enterprise, and what do we need to do today to enable and empower these kinds of student-centric digital learning experiences for all students? We look forward to continuing these important discussions with education leaders worldwide.

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iii Christensen, M. C. (2008) Disrupting Class: How disruptive innovation will change the way the world learns.


About the Speak Up Research Project and Speak Up 2014

Speak Up is an initiative of Project Tomorrow®, the leading global education nonprofit organization dedicated to the empowerment of student voices in education. Each year, the Speak Up Research Project polls K-12 students, parents, and educators about the role of technology for learning in and out of school. This survey represents the largest collection of authentic, unfiltered stakeholder voices on digital learning. Since fall 2003, almost 4 million K-12 students, parents, teachers, librarians, principals, technology leaders, district administrators, and members of the community have shared their views and ideas through Speak Up. K-12 educators, higher education faculty, business, and policy leaders report that they regularly use the Speak Up data to inform federal, state, and local education programs.

In fall 2014, Project Tomorrow surveyed 431,231 K-12 students, 35,337 parents, 41,805 teachers, 2,485 librarians, 680 district administrators, 3,207 school administrators, 442 technology leaders, and 6,653 members of the community representing 8,216 public and private schools from 2,676 districts. Schools from urban (30%), suburban (30%), and rural (40%) communities were represented. Just over one-half of the schools (56%) that participated in Speak Up 2014 were Title I eligible schools (an indicator of student population poverty). The Speak Up 2014 surveys were available online for input between October 6th and December 19th, 2014.

The Speak Up surveys included questions about the use of technology for learning, 21st century skills and schools of the future, as well as emerging technologies (online learning, mobile devices, and digital content), the use of technology within specific curricular areas, and STEM career exploration. In addition, educators shared the challenges they encounter integrating technology into classroom instruction, and how budget challenges have affected these decisions. The data is collected from a convenience sample; schools and districts self-select to participate and facilitate the survey-taking process for their students, educators, and parents. Any school or school district in the United States (or worldwide) is eligible to participate in Speak Up. In preparation for data analysis, the survey results are matched with school level demographic information, such as Title I status, school locale (urban, rural, and suburban), and ethnicity selected from the Core of Common Data compiled by the National Center for Education Statistics (http://nces.ed.gov/). Speak Up data is cross-consulted with NCES statistics to ensure that data represent nation-wide school demographics. The data are analyzed using standard cross-tabulation analysis.

For additional information on the Speak Up methodology, please contact the Project Tomorrow research team.
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Project Tomorrow® is the leading global education nonprofit organization dedicated to the empowerment of student voices in education. With 19 years of experience in the K-12 education sector, Project Tomorrow regularly provides consulting and research support about key trends in K-12 science, math and technology education to school districts, government agencies, business and higher education.

The Speak Up National Research Project annually polls K-12 students, parents and educators about the role of technology for learning in and out of school and represents the largest collection of authentic, unfiltered stakeholder voice on digital learning. Since 2003, almost 4 million K-12 students, parents, teachers, librarians, principals, technology leaders, district administrators and members of the community have shared their views and ideas through Speak Up.

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