

HERRICKS UFSD BOARD OF EDUCATION MEETING MARCH 9TH 2017



Technology/Smart Schools Bond Act Overview

Presenters:

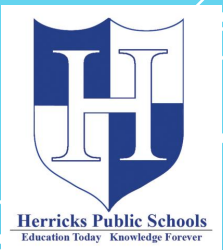
**Christopher Connors
District Technology Coordinator**

**David Pickman
District Technology Integration Specialist**

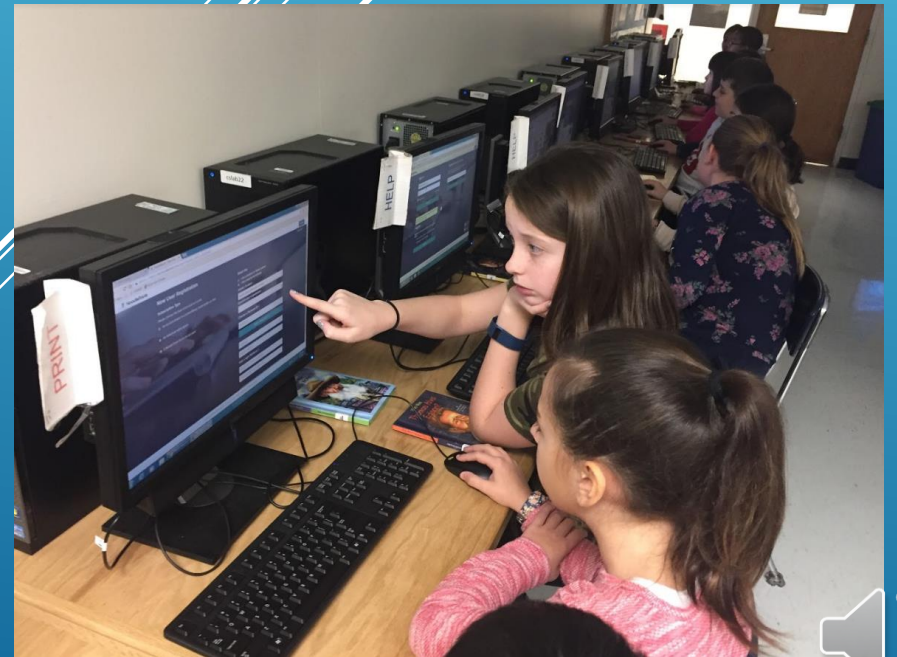


HERRICKS UFSD

MISSION STATEMENT FOR TECHNOLOGY



Through the integration of technology into the teaching/learning environment, students will continue to develop as critical, creative thinkers as well as effective communicators able to succeed in an ever changing technology based world.



HERRICKS UFSD

VISION STATEMENT FOR TECHNOLOGY



Herricks Union Free School District will continue to support a district wide-area network with access to the internet. This network connects all classrooms, schools and administrative offices. Students, teachers and administrators will continue to have access to information from the classroom, office and workplace.

Our classrooms will be labs of inquiry, providing instant access, through the WAN and the internet, to information resources at the building, district, county, state, national and world-wide levels. This access will accelerate the routine tasks associated with learning, assessment, thinking and problem solving in all curriculum areas. Our teachers will continue to accommodate the needs, interests and different learning styles of individual students.

As the means of accessing and transmitting information continue to change and require additional skills, our students, teachers and administrators will be provided with appropriate support. **The training and time to integrate technology into the teaching/learning environment will allow users to become lifelong learners in an information-rich community and world.**

With teachers serving as coaches and facilitators, students will devote more time to higher-level thinking and problem solving in all curriculum areas. Our teachers will continue to accommodate the needs, interests and different learning styles of individual students.



GOOGLE APPS FOR EDUCATION

Gafe: a core suite of applications that focus on communication and collaboration.

Offered to education institutes for FREE, includes Gmail, Calendar, Drive, Docs Sites and Classroom.

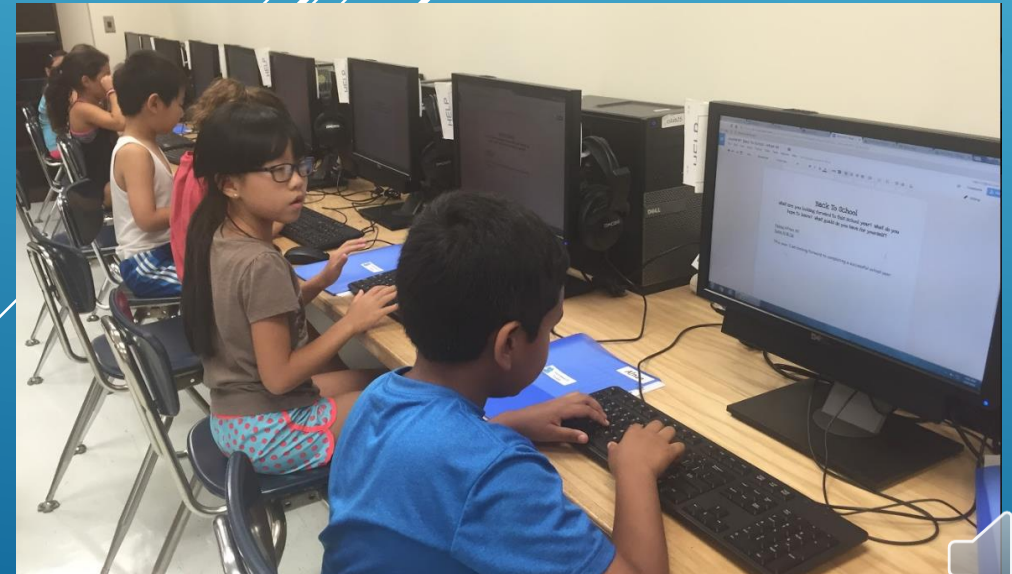
All applications exist entirely online and can be accessed any time from any device with an internet connection.

Similar to a computer hard drive full of folders and files, **Google Drive** is a cloud-based storage system that can be accessed from anywhere with Internet access. Files in Drive are automatically saved and can be shared either to another Google account user or anyone else the creator desires.

Google Classroom is a suite of productivity tools that were designed to allow teachers and students to work collaboratively, keep class assignments and work organized, and improve communication.

Teachers can create and manage classroom discussions that allow students to share resources and interact with each other.

Google Classroom is 100% compatible with the GAFE suite of applications.



PROJECT LEAD THE WAY

Geared toward creating an engaging, hands-on classroom environment to develop critical thinking skills and knowledge.



PLTW Launch (K-5) - Cross-disciplinary curriculum that builds skills in science, computer science, engineering, robotics, biology, problem solving, communication, and collaboration.

Through PLTW Launch, students become hands-on problem solvers and learn to collaborate with their fellow students. PLTW Launch is aligned to Next Generation Science Standards, Common Core State Standards for Math and English Language Arts.



Introduced in the 2014-15 academic year. A PLTW Leader was selected for each of the three elementary schools to coordinate extensive training necessary for a successful implementation.

Ten iPads and related hardware was purchased for each elementary school classroom.



SMART BOARD REFRESH

4 -5 year plan To replace all existing Smart Boards with the latest 65" interactive television displays.

No more downtime fixing burnt out projector bulbs, no shadows getting in the way, no glare or hot spots, and no faded images. Commercial-grade, glare-free LED panels display detailed 4K Ultra HD images, text and video with four simultaneous touch points and object awareness that automatically differentiates between a finger, pen or palm to make interactivity as natural as possible.

Powered by the SMART Learning Suite – An engaging and flexible software suite that includes:

SMART Notebook - a hands- on learning environment.

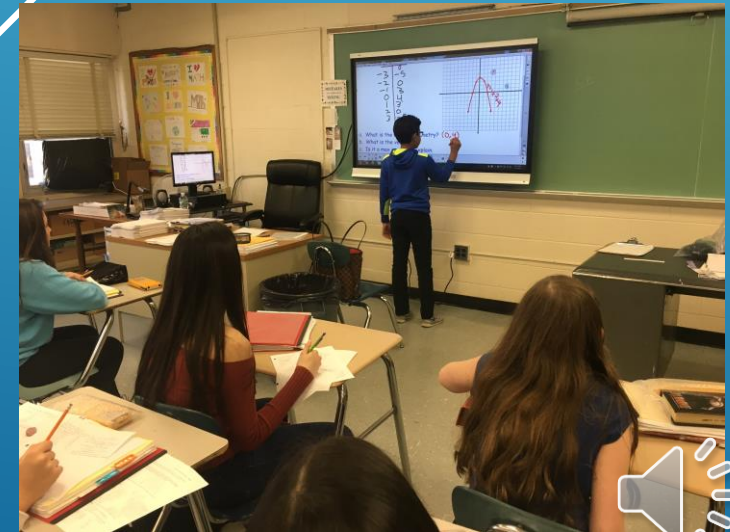
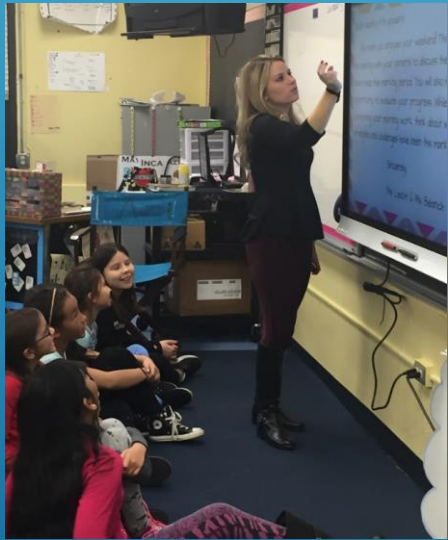
SMART Lab - activity creator.

SMART Response - assessment creator and delivery platform.

SMART Amp - a collaborative environment where students and educators can work collaboratively.

42 boards replaced in 2015 - 2016

40 boards replaced in 2016 – 2017



ACQUISITION OF NEW TECHNOLOGY TO MEET CURRENT DEMANDS

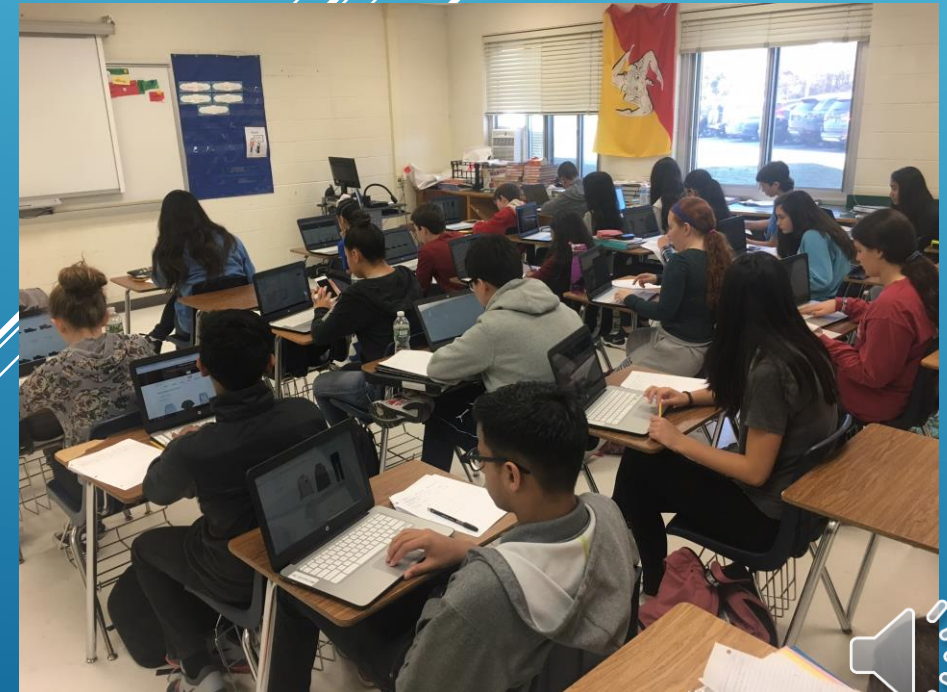
Replacement of core-2 desktop, laptops and netbooks.

To take advantage of the district's investment in the latest technologies, our older core-2 desktops and laptops needed replacement. In the 2016-17 academic year, a majority of our older desktops and laptops have been replaced. The remainder will be replaced in the 2017-2018 academic year.

Mobile learning technologies offer teachers and students a more flexible approach to learning. Helping students to become technologically skilled and literate and thus better prepared for college and the modern work environment. To support 21st century learning and the district's Google K-12 initiative, we are acquiring Chromebooks for each of our school buildings.

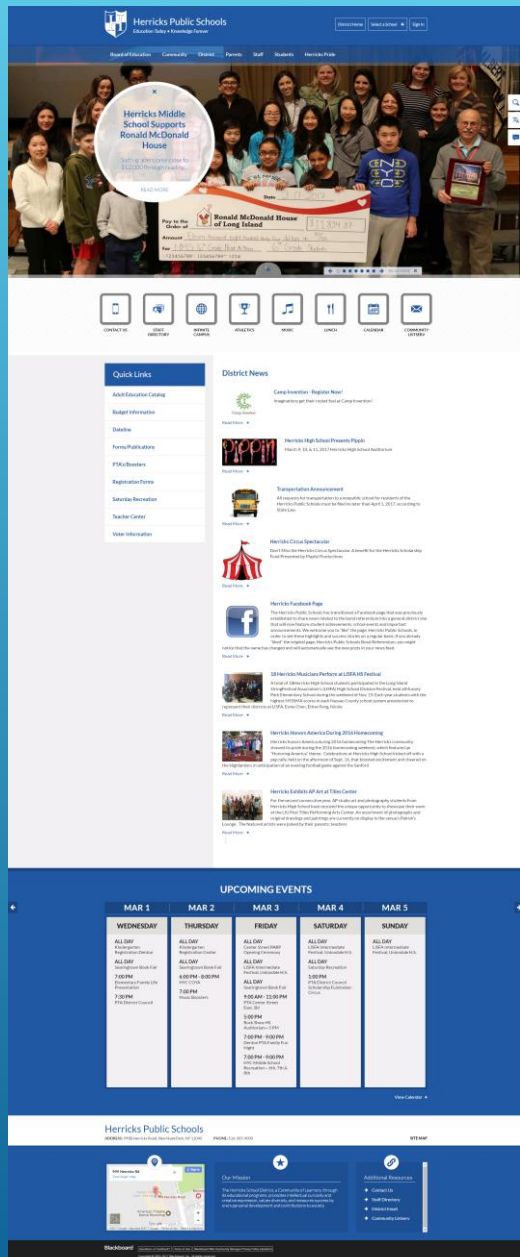
Center Street - 134
Denton Avenue - 166
Searingtown - 129

Middle School - 453
High School - 450

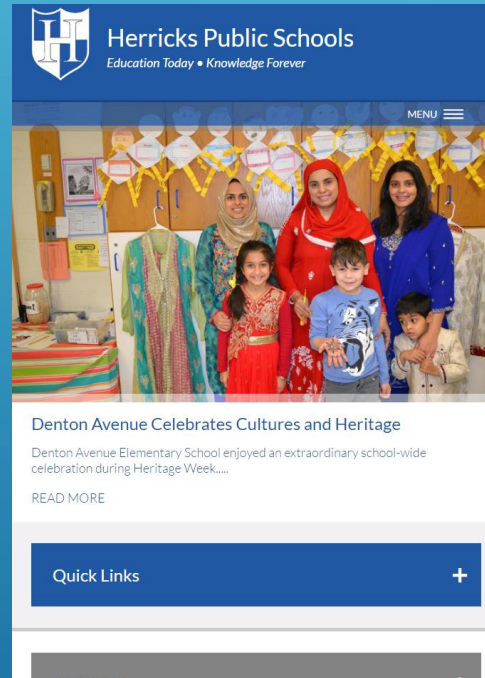


DISTRICT WEBSITE RE-DESIGN

Goal: To provide a quality district/school website for connecting the k-12 community. The website should be accessible to all users, meet current technology standards, improve school-home communication, celebrate district achievement.



Website View



Cell Phone View



Tablet View

To be launched April 1st 2017.



SCHOOL TO HOME COMMUNICATION

- Blackboard Connect/Parent Link –the district is now using this application to improve school to home communication. This program fully integrates with our student management system – Infinite Campus – and allows the district to quickly send email, text and voice messages.
- Parent Portal Committee – has been meeting throughout the year with the goal of opening Gradebook for Parent access.



PROFESSIONAL DEVELOPMENT

Supporting the efforts of students, teachers and administrators

Each school has a computer integration teacher supported by the services of a computer lab teaching assistant.

The Herricks Teacher Center Consortium offers many in-service courses for our teachers and staff.

NEW for 2016/17 - TEQ Online PD delivers professional development content through a convenient online platform, giving access to an entire library of live PD sessions, where participants can interact with the instructor in real-time. A library of pre-recorded sessions are available 24/7.



SMART SCHOOLS BOND ACT

The \$2 billion “Smart Schools Bond Act of 2014” was approved by the voters at the New York State 2014 General Election.

Technology projects may include but are not limited to: interactive whiteboards; computer servers; tablets, desktop and laptop computers; high-speed broadband or wireless internet connectivity for schools and communities.

Districts are required to submit a “Smart Schools Investment Plan” to the Smart Schools Review Board which is comprised of the education commissioner, the state budget director, and the chancellor of the State University of New York. The plan will describe how the district will use the Smart Schools Bond Act funds. The district may not receive a Smart Schools Grant until the review board approves their plan.

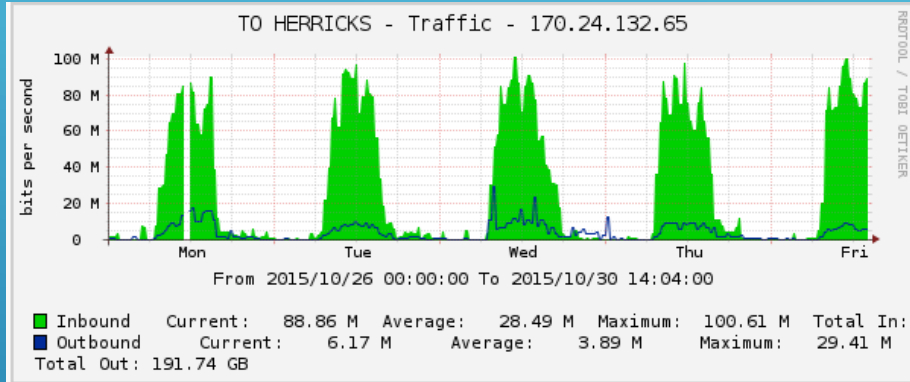
In developing such investment plans, school districts are required to consult with parents, teachers, students, community members and other stakeholders.

Herricks UFSD allocation: \$ 966,909



INFRASTRUCTURE UPGRADE

To support existing and future technology initiatives, the network infrastructure needs to be upgraded.



NEW for 2016/17 - Increased shared pipeline to the internet to 500Mbps up and down.

Begun investigation of upgrade solutions to increase the capacity of both our wired and wireless infrastructures.

AVAYA Network Solutions - A complete AVAYA solution.

Network Outsource - Hybrid solution combining Brocade switching and Aerohive wireless

CDWG/CISCO – A complete network overhaul using industry standard CISCO hardware that could easily be integrated into our existing network infrastructure. CISCO provides industry leading performance, scalability, and reliability.



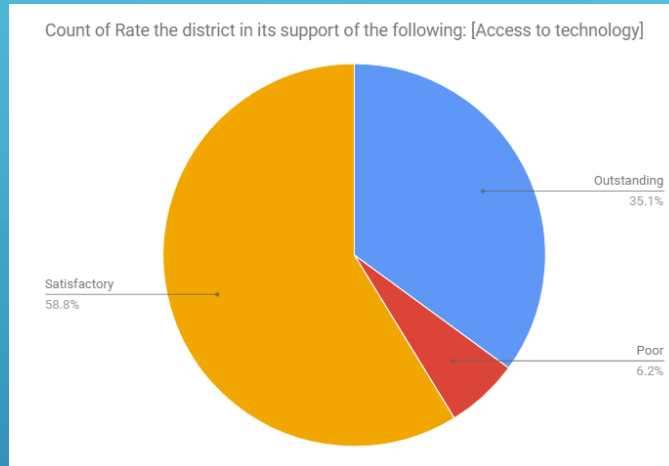
FACULTY/STUDENT SURVEY

As a requirement of the SMART Schools Bond Act, the educational technology committee created and disseminated a survey to gather feedback from faculty and students to help guide future technology decisions. There were three surveys created: A faculty survey, a survey for middle and high school students and a survey for elementary students in grades 3 – 5. In the next few slides, we would like to share some of the results with you.

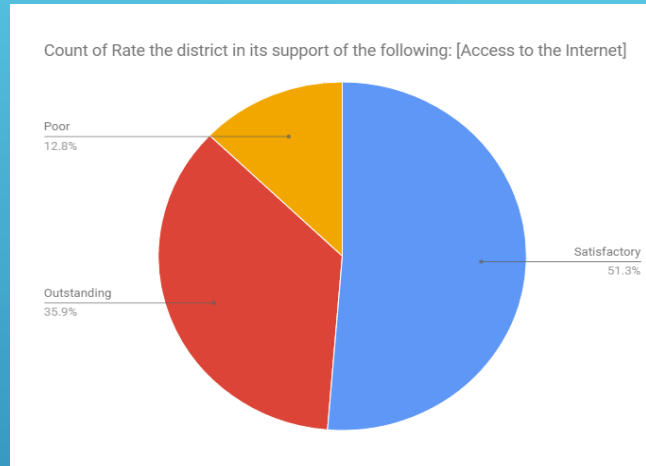


RATE THE DISTRICT IN ITS SUPPORT OF THE FOLLOWING (FACULTY)

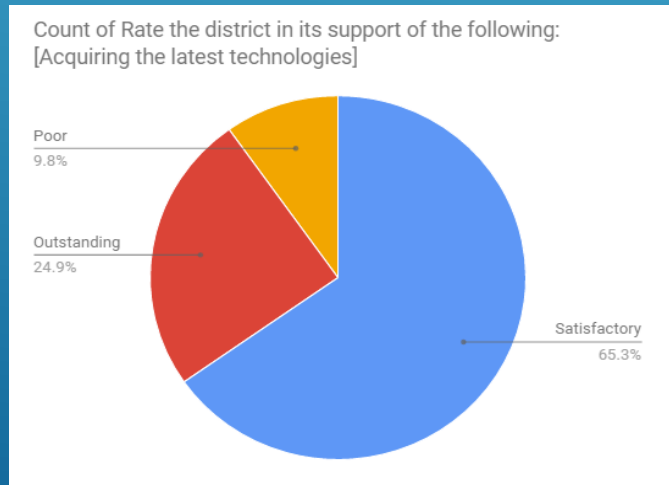
93.9 % of respondents feel "Access to Technology" is Satisfactory or above



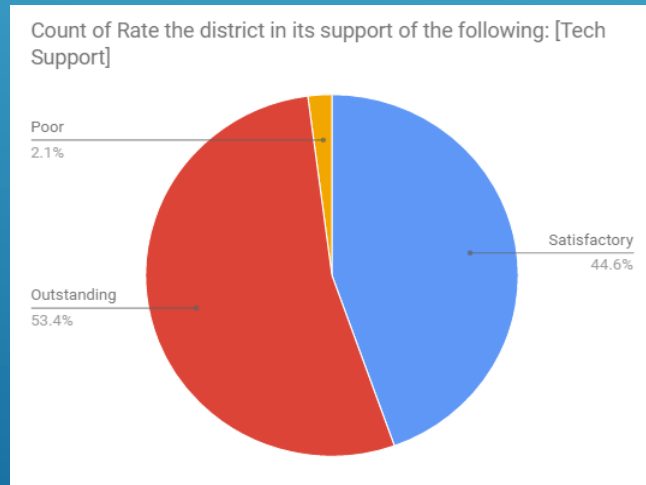
87.2 % of respondents feel "Access to the Internet" is Satisfactory or above



90.2 % of respondents feel "Acquiring the Latest Technologies" is Satisfactory or above



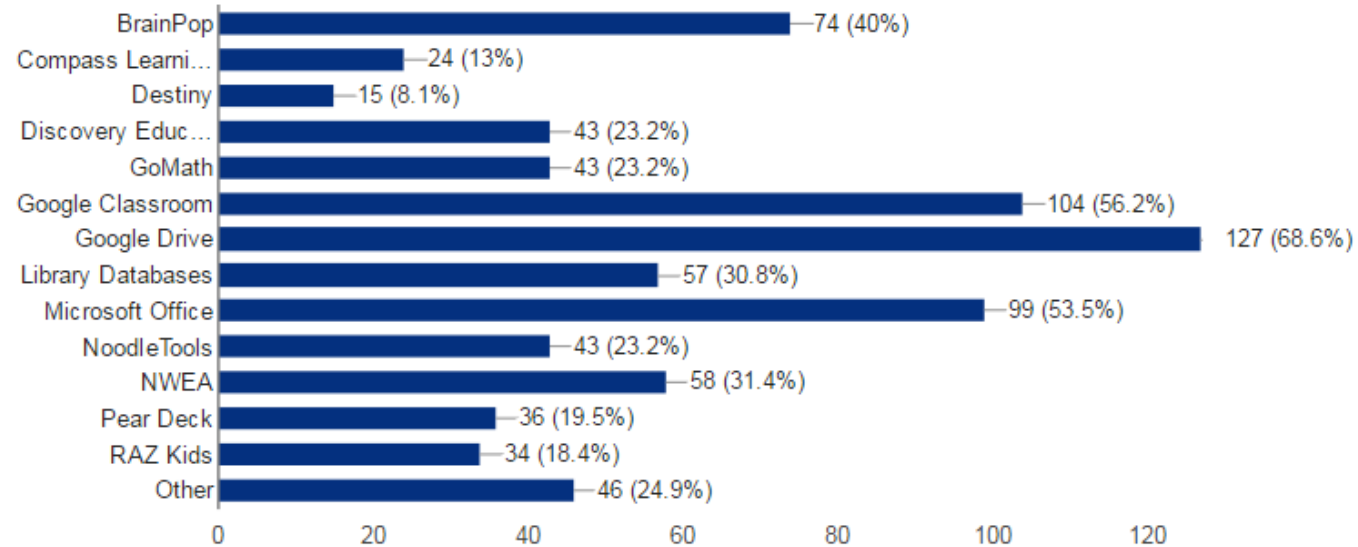
98 % of respondents feel "Tech Support" is Satisfactory or above



WHAT TECHNOLOGY TOOLS ARE TEACHERS USING WITH STUDENTS

What technology applications/subscriptions are you actively using with students?

(185 responses)



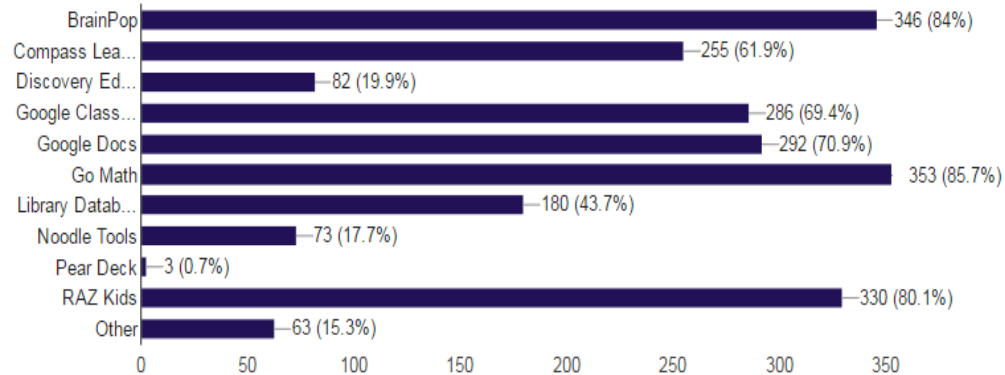
12 of the top 13 choices require internet access



USE OF APPLICATIONS REPORTED BY STUDENTS

Which of the following applications have you used for school in the past school year?

(412 responses)

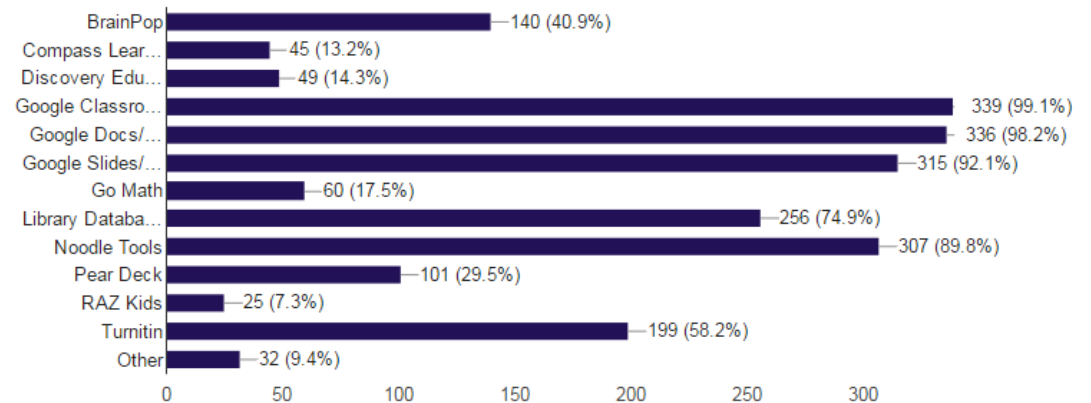


Elementary schools

At the elementary level, student use of Go Math, BrainPop, RAZ Kids, Google Apps Education, and Compass Learning have driven the need for increased bandwidth and more devices to access the Internet.

Which of the following applications have you used in school over the past school year?

(342 responses)



Middle and High schools

At the secondary level, student use of Google Apps Education, Noodle Tools, Turnitin, BrainPop, Pear Deck driven the need for increased bandwidth and more devices to access the Internet.



NOTABLE COMMENTS

excerpts from the anecdotal questions



- Using technology, I am able to use authentic and current material in class.
- Teacher Comment
- Technology is always a motivator to learning which improves learning/achievement.
-Teacher Comment
- I think that kids need to learn ways to use tech in a way that benefits them by helping with school. – Elementary Student
- I like technology. It helps with daily life. In modern times, you cannot go a day without the aid of technology, for example, this forum, it is using technology. With the internet, the world is just one key press away. Technology has really helped me throughout my educational career. I'm really fortunate to be living in a time such as this, where there are constant innovations everyday!
– High School Student
- Continue early access and exposure to technology. Students with experience in elementary school tend to be well-prepared in middle school. More advanced skills should be introduced and integrated in middle school. This is already done, but should be continued and, if possible, done more. We also need the infrastructure and physical resources to be able to use technology regularly; access is still more limited than it should be.
-Teacher Comment



Thank you!
Any questions?

