

2016-2019

# Berlin Township School District Three Year Tech Plan

Berth, Amy

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## Introduction

### District Mission Statement

The slogan of the Berlin Township School District of “Educating Today for Tomorrow’s Success” is meant to focus the educational community on the broad goal of giving ALL of our children the necessary skills to be successful in all future endeavors. Student achievement is the major priority; the district prides itself on its creative approach to learning and its emphasis upon helping each student to discover his or her potential. Teachers use a variety of teaching methods to reach students with a wide range of abilities. Student engagement as volunteers in the learning process is our primary focus. It is our responsibility to create structures and systems where students are totally engaged in the instruction, which will then lead to deeper learning and understanding.

The Berlin Township School District commits itself to all children by creating a standards-based school district in which all students receive the very best educational opportunities possible. Each and every student will surpass the New Jersey Core Curriculum Content Standards. To achieve this, the members of the district will focus on:

- Establishing high standards of excellence for both staff and students.
- Communicating openly and frequently within the district and with the community to foster a trusting relationship.
- Ensuring a safe and orderly environment for staff and students.
- Recognizing that a school district serves as a role model and has the responsibility to encourage high quality character behavior.

### Technology Committee Mission and Vision

#### Mission

The mission of the Berlin Township School District’s Technology Committee is to research, recommend, and support the effective integration of both established and emerging technologies into the learning environment. Berlin Township School District is committed to fostering intellectual exploration, individual growth and social responsibility in our students' lifelong pursuit of excellence and honor. The district’s motto is “Educating Today for Tomorrow’s Success.” The Berlin Township School District envisions ALL of its students as successful global citizens and leaders in the 21st century. Teachers will use a variety of instructional methods to reach students with a wide range of abilities so that ALL students will receive the very best educational opportunities possible.

#### Vision

Technology is changing the way people across the globe communicate, learn and work. In order to create an engaging learning environment and effectively prepare students for the future, schools must embrace technology and thoughtfully integrate it into the learning process.

## Technology Definition

The Berlin Town School District uses technology in both its instructional program and in the administration of the District. Technology is defined as the hardware, software applications, and virtual environments used to perform tasks more efficiently and provide the employees with ways to create things originally not possible. In education, the focus is on using the most appropriate technology and applications to support and supplement quality teaching and learning. Such equipment includes, but is not limited to:

- ☆ Computers (desktops, laptops, Chromebooks)
- ☆ Mobile devices (iPad, iPod touch, cell phones)
- ☆ Digital cameras
- ☆ Interactive white boards and interactive projectors (like SMART Boards/Panels and Epson Bright Links)
- ☆ Video technologies (video conferencing, video streaming, broadcast video)
- ☆ Audio recording tools (USB microphones and mobile recorders)
- ☆ Student response systems (online response tools, responders, and NEOs)
- ☆ Inter and intra-District network routers and servers
- ☆ Internet access and cloud-based e-mail
- ☆ Internet filters and firewalls
- ☆ Equipment to access telephone and voice services
- ☆ Printers and Copiers

## Technology Plan Vision

The introduction of information technologies into virtually every aspect of our lives has led educational leaders, parents, and students to think differently about where and how learning takes place. Traditional concepts of schools, classrooms, and learning are being challenged as technologies introduce new ideas and capabilities into the system.

Beyond the school walls, the global business market is demanding a new set of skills from college graduates and has an increasingly growing pool of workers from which to draw the best qualified employees. At the same time, the rate of change in both business models and related technologies makes identifying the specific skill-set difficult to articulate, let alone plan for.

This technological change is being driven by four factors:

1. The technologies we use are increasingly cloud-based and access is decentralized. Information is accessible at any time from almost anywhere.
2. There is a growing shift in the way education is viewed; moving from a focus on the transmission of knowledge (teacher-centric) to the process of learning (student-centric).
3. The abundance of and ease of access to resources and relationships made easily accessible via the Internet is driving questions regarding the definition of teacher, class, and textbook.
4. People expect to be able to work, learn, and study whenever/wherever they want to and are increasingly resistant to arbitrarily established restrictions relating to time and place.

These new realities have produced calls from political and business leaders for schools transform themselves, in order to create learning environments that promote an emerging set of 21st Century learning skills that include active learning, critical thinking, collaborative learning, and knowledge creation. The role of the teacher in this process and the transmission of academic skills and knowledge become even more critical. Teachers will need to use multiple teaching and learning tools and technologies to ensure that students have the academic background necessary to provide the foundation needed for effective use of the technology tools outlined in this plan.

In the Berlin Township School District, we have acknowledged this changing environment and expanded the process of transformation that reaches across the organization and into the homes of our teachers and students. These changes are being given impetus by two simple facts and based upon three basic assumptions. We acknowledge (Fact #1) that the world economy is struggling and we simply cannot do what we have always done and must find ways to become more efficient while increasing our effectiveness in raising student achievement. We also accept (Fact #2) that we must adapt to this changing environment and consider the implications for the district and schools, our staff, and most importantly, our students. The goals, objectives, and activities outlined in this plan are based on the understanding that we live in a different world (i.e., reality, era, environment) than we grew up in (assumption #1); one in which digital natives rely on digital immigrants to understand their emerging learning style and personal academic needs. We also recognize that business is seeking graduates with a set of skills (e.g., global awareness, complex problem solving, critical thinking, collaboration, active learning, and intellectual curiosity), which challenge school and district standardization efforts (assumption #2). Finally, we acknowledge that our students are currently picking up many of these

requisite skills using personal learning and social networks outside of school (assumption #3). Our vision shaping activities included review and consideration of the five goals articulated in the 2010 National Technology Plan:

1. All learners will have engaging and empowering learning experiences both inside and outside of school that prepare them to be active, creative, knowledgeable, and ethical participants in our globally networked society.
2. Our education system, at all levels, will leverage the power of technology to measure what matters and use assessment data for continuous improvement.
3. Professional educators will be supported individually and in teams by technology that connects them to data, content, resources, expertise, and learning experiences that enable and inspire more effective teaching for all learners.
4. All students and educators will have access to a comprehensive infrastructure for learning where and when they need it.
5. Our education system, at all levels, will redesign processes and structures to take advantage of the power of technology to improve learning outcomes while making more efficient use of time, money, and staff.

This plan describes a shift in focus of the organization from standardization and compliance to innovation and experimentation; from value attached to "presence" (attendance) to one based on outputs in which value is placed on growth as measured against student learning goals. The plan promotes personalized learning in which instruction is paced to learning needs (individualized), tailored to learning preferences (differentiated), and tailored to the specific interests of different learners. Learning objectives focus on creating environments and activities that support engagement and motivation as determined solely from the learner's perspective. Each teacher is continually guided by student-specific learning data that is gathered on a daily basis (if not more frequently) and used to inform instructional decision making at the student level.

We have initiated a system redesign in which connected learning replaces learning in isolation for both teachers and students. By leveraging the ubiquitous nature of blended and hybrid learning spaces, we have promoted an environment where learning is the constant and time and space are the variables. By promoting learning as borderless (time, place, resources, opportunity) schools and structures are defined only by student learning and productivity – by where the learning takes place. All learners will have 24x7x365 access to learning (resources, opportunities, experiences). The plan outlines processes for finding the optimal teacher, learning environment, and learning resources matched to each student's need.

By focusing on the learning – and therefore the learner – our plan redefines the role of the teacher as a facilitator of student-directed inquiry and learning. This represents a shift from teachers as “solo practitioners” to educators as well-connected lead learners. While there is a need for certificated, professional teachers; learning is not bounded by teacher certification. The plan defines how virtual learning environments will engage experts from the field and supports a means for their voices to be delivered into the learning process. The same will be true for engaging and incorporating voices of students and educators across the globe. The activities within learning environments (both traditional and virtual) are moving from a transmission or passive learning model to a transaction or active model

of learning – one that supports global awareness and connectedness at both the adult and student levels across the organization.

## Review of 2013-2016 Technology Plan

Some of the needs in the previous technology plan that have been accomplished:

- ☆ Two new virtualized servers were purchased to rid the district of numerous individualized servers, saving the district replacement costs, power consumption, and ease of management and expansion.
- ☆ Replacement of obsolete equipment was ongoing. This included desktops, laptops and printers.
- ☆ All machines in district were upgraded from Windows XP to Windows 7 – this standardized the learning environment and security issues with running an older Operating System were minimized.
- ☆ All but a handful of projectors were mounted onto the ceiling.
- ☆ A centralized console for anti-virus was installed and maintained.
- ☆ New SMART Panels and Epson Bright links were purchased and installed to enhance student learning.
- ☆ All 10/100 switches were replaced with Brocade Gigabit switches and HP Gigabit switches.
- ☆ Firewall/Proxy servers were replaced with a Secure School Web filter.
- ☆ TeacherEase SIS lesson planner was replaced with OnCourse.
- ☆ A full time Technology Coordinator was contracted.
- ☆ Internet speed was upgraded from 50 Mbps to 100 Mbps.



## District Infrastructure

This list of questions was taken from the “Technology Planning for Digital Learning” guide on the state’s technology website: <http://www.nj.gov/education/techno/localtech/tpdl/tpdl.pdf>.

NJTRAx Technology Readiness was completed and updated on May 18, 2016. We were rated at a 9 for both minimum and recommended. This is the highest rating. The rating does carry over for each school at this time. The report is used to measure if the district and schools are capable of PARCC testing.

### What is NJTRAx?

NJTRAx is an interactive database developed to assist New Jersey districts and schools in assessing their technology readiness for online assessments as well as for digital learning.

### Basic Expectations

- ☆ **Is there an existing robust technological infrastructure that meets current connectivity goals and that can be augmented to meet future demand that is at least 100 KB per student external connection for each 1,000 students and 1000 KB per student internal connection scalable up to 1 GB Ethernet or 1,000 MBPS?**

We currently have a 100 Mbps Internet connection through Comcast. Which is approximately 166 KBs per student (giving each student 66 KBs more than the recommended connection speed). That internet speed is expandable up to 1 Gb without changing Comcast’s current physical equipment. Our backbone is capable of going up to 1Gb between buildings and all switches can handle 1 Gb of data. *Our current wireless solution only handles up to 300 Mbps speeds and needs to be replaced to handle the recommended configuration.*

- ☆ **Is equipment scalable, such as firewalls, switches and routers that form the backbone of both wired and wireless networks?**

Our current firewall cannot be expanded. Our Brocade switches can be expanded up to 10Mbps backbone throughput, but our HP switches cannot be expanded to handle additional throughput. Our current Brocade wireless solution cannot be expanded and is not scalable.

- ☆ **Is equitable access to technology and connectivity available to all students within the school grounds?**

Yes, the students have access to an “open” library where computers are located. There is a lab that teachers can also sign up for during the school year. Every room has at least 2 student machines.

- ☆ **Is there efficient routing of information between internal users and external resources?**

Yes, our switches are able to handle the amount of routable traffic.

- ☆ **Is bandwidth and current Internet usage tracked?**

Bandwidth is only tracked when needed or if there is an issue. Internet usage information is available but only used when needed.

- ☆ **Is there ongoing coordination when ordering new technologies and maintaining technology between the maintenance department within the district, the lead persons for both educational technology and assistive technology, and all principals?**

Yes, all administrators work together to make sure that what is ordered is what is needed.

- ☆ **Does the district have security software to manage potential hacks, viruses, etc.?**

We do have Anti-virus on all the end points and a firewall on the edge of our WAN. There is no IPS currently in place, but will be planned for.

- ☆ **Is there a security system(s) in place to determine who can automatically enter a district building (i.e., Access control systems, taped video security or proximity readers)?**  
Yes, there is a security system that uses key fobs to open specific doors. All doors that lead inside are locked at all times.
- ☆ **Is there digital citizenship support and education available for staff and students?**  
Yes, digital citizenship for students is taught within the curriculum in the Technology Classes. Teachers can earn a certificate through the Safe Schools website.
- ☆ **Are the needed technical solutions to support the educational environment, both academic and administrative identified and addressed?**  
Yes. This is done yearly with the Technology Committee and the Superintendent's Council.
- ☆ **Are IT resources maintained by a reliable and responsible person or firm? For those districts that need additional technical support, does the district collaborate with other districts for shared services to ensure onsite assistance available for online assessments?**  
Yes, the Technology Coordinator is the reliable and responsible person maintaining the IT resources. If we need outside technical support, we use an outside vendor. We do not use shared services for IT.
- ☆ **Considering all network equipment (security cameras, wireless devices, desktops, all ports), does the district document all infrastructure setups and IP address schematics?**  
Yes, there is documentation kept by the Technology Coordinator (laptops, desktops, ports, APs, infrastructure set-up, IP schematics, etc.) and the Maintenance Supervisor (security cameras and phones).

#### Expansion Considerations

- ☆ **Is there an anytime/anywhere learning environment?**  
No, this will be considered as part of this plan.
- ☆ **For Bring Your Own Device (BYOD) environments, are management policies in place?**  
No, we are currently revising policies to allow this.

## CURRICULUM, PEDAGOGY, TEACHING, LEARNING, AND ASSESSMENT

### Basic Expectations

#### Curriculum, Teaching, Learning and Assessment

- ☆ **Do students collaborate with peers and create original deliverables as an outcome?**  
Yes, we use GAFE for student collaboration. Teachers use GAFE for individual and group formative and summative assessments. These projects can take a variety of different forms.
- ☆ **Do students critically evaluate their work and peer work for continuous improvement?**  
Students are provided with the opportunity to evaluate their work and the work of their peers through the use of Google Classroom. Teachers and students have the ability to make comments on the drafts of their classmates' assignments within GAFE.
- ☆ **Are barriers identified that impede teachers in effectively infusing technology into instruction?**  
Teacher training surveys are circulated to determine staff needs. Additional training sessions are held to support teachers less fluent in the usage of classroom technologies.
- ☆ **Are teachers infusing standard 8.2 concepts within their lessons?**  
This is an ongoing part the district's curriculum writing process.

#### Pedagogy

- ☆ **Do students learn from one another, from the teacher and from resources available outside the school walls?**  
Many teachers are comfortable assigning students different aspects of a particular topic and letting students research and then teach the class their findings. This instills in students a sense of autonomy and shifts the responsibility of the lesson to the learners. Collaborative group-work assignments enable students to model effective technology practices to their peers. We continue to pursue ways in which students can fully access technology on a global scale.
- ☆ **Considering the district's vision for student learning, do teachers know about the technologies that will help make this type of learning more achievable?** Student learning should be engaging and hands-on. Technology should, wherever possible, be in the hands of users. Teachers are offered professional development to ensure they can effectively use the technology with which they are provided.

## Assessment

☆ **Are multiple means used by students to demonstrate learning?**

Yes, students are given assessments (quizzes and tests) and projects. Students give verbal presentations to their classes to demonstrate knowledge of the research performed.

☆ **Do students have digital portfolios to maintain online collections of their work and objects?**

Students from 1<sup>st</sup> to 8<sup>th</sup> grade have Google Accounts and Google Drive access. This permits storage of student work through the course of the year and through the entirety of students' careers here in the Berlin Township School District.

## TRANSFORMATIONAL BUDGETING

### Basic Expectations

- ☆ **Is the monetary source for all upcoming purchases identified?**  
Yes
- ☆ **Are the funding sources for recurring services, anticipated purchases, and professional learning (include the technology resources to support the district's technology initiatives) over the next three years identified?**  
Yes
- ☆ **Does the district have a system in place to determine if what is purchased is actually being used appropriately?**  
Yes
- ☆ **Is the district using innovative ways to fund educational technologies?**  
Yes, we use grants (state and local).

### Expansion Considerations

- ☆ **Is zero-based budgeting utilized?**  
Yes

## Inventory

### Hardware

#### Dwight D Eisenhower

- Windows Desktops – 84
- Windows Laptops – 174
- Chromebooks – 83
- iPads – 41
- NEO Carts – 4
- Responder Sets – 3
- Printers – 39
- Projectors – 29
- Interactive Epson Bright links – 5
- SMART Boards/Panels – 20

#### John F Kennedy

- Windows Desktops – 100
- Windows Laptops – 50
- Chromebooks – 7
- iPads – 14
- NEO Carts – 6
- Printers – 38
- Projectors – 24
- SMART Boards/Panels – 23

### Hardware Replacement Schedule

Laptops – 4 Years

Chromebooks – 4 Years

Desktops – 5 Years

Servers – 6 Years

Wiring Infrastructure – 10 Years

Switches/Routers – 6 Years

Firewall/Web filter – 5 Years

Wireless Infrastructure – 5 Years (minimum of updated APs – not a whole rip and replace)

Printers – 5 Years

iPads – 4 Years

SMART Boards – 6 Years

Projectors (not interactive) – 5 Years

\*\*Guideline is 4-6 Years depending on type of hardware and its use

## Software

### District –Wide

- Microsoft Office Suite (2013)
- Google Apps for Education
- OnCourse (SIS, Lesson Planner, Gradebook, and Teacher Websites)
- McRel for Teacher Evaluations
- Secure School IT Trouble Trakker
- School Dude Maintenance Tickets
- School in Sites Website

### Dwight D Eisenhower

- Renaissance Learning (K-8th grade)
- Study Island (4-8th grade)
- Pearson Success Net (3rd-8th grade)
- Discovery Education (4th-8th grade)
- Sketchup
- Type to Learn 4
- SMART Notebook for teachers

### John F Kennedy

- Renaissance Learning (K-8th grade)
- Pearson Success Net (3rd-8th grade)
- Rainforest Maths (K-3rd grade)
- Aims web (K-3rd grade)
- Teaching Strategies Gold (online components) (Pre-K)
- Type to Learn 4
- SMART Notebook for teachers

## Implementation Planning

### District

#### Goal 1

Berlin Township School District will establish and maintain the technology infrastructure necessary for all students, administrators and staff to safely, consistently and effectively access digital information on demand and to communicate virtually.

*Strategy 1.1:* Upgrade current obsolete Brocade wireless with a solution that is expandable and upgradable. The newer wireless will have a cloud-based wireless controller for ease of management. The wireless will now have the appropriate coverage and capacity to handle a future scenario of BYOD, one-to-one, or many-to-one. The new wireless solution will provide AC capabilities to go up to 1 Gbps instead of our current 300Mbps, which will be more than triple the throughput speeds we currently have. Wireless will be added to the gyms/all-purpose rooms also. The wireless will be secure, but also easily accessible to our students. Two new switches will be added to the network (1 in DDE and 1 in JFK) to accommodate the added hardware. The expansion of the wireless network will allow for more devices and faster speeds without dropping devices from the network.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Contact eRate about Category 2 funding and process.	☆ Technology Coordinator ☆ Bus. Administrator	To be completed by October 1, 2015	☆ E-Mails
Choose vendor based on ERate guidelines and quotes received from vendors	☆ Technology Coordinator	To be completed by May 1, 2016	☆ E-Mails ☆ Quotes(bids)
Have designated vendor(s) replace current wireless and double the access points for coverage, concentration and speed. 2 new switches will be added and wiring ran for expansion.	☆ Technology Coordinator ☆ Breaker Group for Switches ☆ CoreBTS for Wireless	To be completed by July 30, 2016	☆ Quotes ☆ Statement of Work ☆ Signed Contracts ☆ Purchase Orders
Maintain Web filter and Firewall to insure security, accessibility and up-time.	☆ Technology Coordinator	August 1, 2016 - ongoing	☆ Documentation of maintenance completed



*Strategy 1.2:* Replace current Secure School appliance that is a combo web filter and firewall with a more secure solution. Currently, the appliance in-house cannot do Intrusion Protection to prevent us from being hacked. The filter is not capable of filtering by individual, so there is no reporting by individual, just by IP (which changes and is not static per device). A Next Gen firewall needs to be installed and properly configured so our environment and student is safe from data breaches from outside.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Contact eRate about Category 2 funding and process.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Business Administrator</li> </ul>	To be completed by October 1, 2015	<ul style="list-style-type: none"> <li>☆ E-Mails</li> </ul>
Choose vendor based on ERate guidelines and quotes received from vendors during process	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	To be completed by May 1, 2016	<ul style="list-style-type: none"> <li>☆ E-Mails</li> <li>☆ Quotes(bids)</li> </ul>
Have designated vendor replace and configure new firewall and web filter based on security measures and accessibility to educational resources.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Breaker Group</li> </ul>	To be completed by August 1, 2016	<ul style="list-style-type: none"> <li>☆ Quotes</li> <li>☆ Statement of Work</li> <li>☆ Signed Contract</li> <li>☆ Purchase Order</li> </ul>
Maintain (apply updates, install firmware, monthly testing, and re-configure as needed) Web filter and Firewall to insure security, accessibility and up-time.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	August 2, 2016 - ongoing	<ul style="list-style-type: none"> <li>☆ Documentation of maintenance completed</li> </ul>

*Strategy 1.3:* Replace the 1GB Multi Mode Fiber between John F Kennedy and Dwight D Eisenhower Schools. The fiber will be replaced with a 10GB Backbone to allow faster transmission speeds between the two buildings. This will improve the internet connection for JFK, since the main line comes into DDE and then goes over fiber to JFK. After

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Contact vendors and get quotes on pricing. Include Building and Grounds Supervisor since the cable is underground.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Building and Grounds Supervisor</li> </ul>	To be completed by October 15, 2016	<ul style="list-style-type: none"> <li>☆ E-Mails</li> <li>☆ Quotes</li> </ul>
Choose vendor based on district and state guidelines and quotes received from vendors during process.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	To be completed by December 1, 2016	<ul style="list-style-type: none"> <li>☆ E-Mails</li> <li>☆ Quotes(bids)</li> </ul>
Have designated vendor replace fiber, add modules to switches and reconfigure switches.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Chosen vendor</li> </ul>	To be completed by July 30, 2017	<ul style="list-style-type: none"> <li>☆ Quotes</li> <li>☆ Statement of Work</li> <li>☆ Signed Contract</li> <li>☆ Purchase Order</li> </ul>
Maintain newly installed fiber	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	August 2017 - Ongoing	<ul style="list-style-type: none"> <li>☆ Maintenance Purchase Orders</li> <li>☆ Documentation of Testing</li> </ul>

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*Strategy 1.4:* Continue to provide and update high speed Internet connection and update internal wiring to CAT 6.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Maintain Current 100Mbps Internet connection with funding through eRate.	☆ Technology Coordinator	FY 2016-2017 FY 2017-2018	☆ Paid Purchase Orders
Increase Internet connection speed using the eRate process.	☆ Technology Coordinator ☆ Bus. Admin.	FY 2018-2019 – To Be Completed by July 1, 2018	☆ E-Mails ☆ Quotes(bids) ☆ Contract
Replace CAT 5e cabling with newer CAT 6 cabling standard in Dwight D Eisenhower	☆ Technology Coordinator	FY 2018 -2019 Summer of 2018	☆ E-Rate Funding Category 2 ☆ E-Mails ☆ Bids ☆ Contract

## District

Goal 2

All administrators will attain the 21st century skills and knowledge necessary to effectively integrate educational technology in order to enable students to achieve the goals of the core curriculum content standards and experience success in a global society.

*Strategy 2.1: All administrators will participate in ongoing, sustained, high-quality professional development activities focused on infusing 21st century skills into curricula and instructional practices.*

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
<p>Ensure that the district's existing professional development plan includes the following activities that support integration of 21st century skills across the curricula:</p> <ul style="list-style-type: none"> <li>o Assemble a list of current professional development activities.</li> <li>o Evaluate current professional development related to curricula to assure it models and instructs in the effective use of technology.</li> <li>o Evaluate the effectiveness of the professional development activities throughout the district.</li> <li>o Address future professional development opportunities that support ongoing, effective and relevant staff development programs that are based on evaluation results.</li> </ul>	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Curriculum Supervisor</li> <li>☆ School Principals</li> </ul>	<p>Yearly</p> <p>FY 2016-2017</p> <p>FY 2017-2018</p> <p>FY 2018-2019</p>	<ul style="list-style-type: none"> <li>☆ District/School Surveys</li> <li>☆ In-District Training</li> <li>☆ Out-of-District Training</li> <li>☆ Articulation with High School sending districts</li> <li>☆ NJDOE training opportunities</li> </ul>

*Strategy 2.2:* All school administrators will model the 21st century skills necessary to provide effective and informed leadership that supports the infusion of educational technology and encourages learning beyond the school walls.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Develop learning environments that promote higher order thinking skills and are supported by the district technology plan.	<ul style="list-style-type: none"> <li>☆ Curriculum Supervisor</li> <li>☆ School Principals</li> </ul>	By 6/2017	☆ Training Opportunities
Identify, recognize and promote established resources, projects and programs at the national, state, county, and local levels that are exemplary practices for the application of technology in teaching, learning, and collaboration.	<ul style="list-style-type: none"> <li>☆ Curriculum Supervisor</li> <li>☆ School Principals</li> <li>☆ Superintendent</li> </ul>	Ongoing	☆ Training Opportunities
Identify emerging and innovative practices in educational technology implementation and disseminate this information throughout district and schools.	<ul style="list-style-type: none"> <li>☆ Curriculum Supervisor</li> <li>☆ School Principals</li> <li>☆ Superintendent</li> </ul>	Ongoing	☆ Best Practices

*Strategy 2.3:* All supervision and evaluation practices will address the effective use of educational technology for student achievement of the Core Curriculum Content Standards and success in a global society.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Include in observations a means for assessing the infusion of technology into instructional practices.	☆ All Administrators	Ongoing	☆ McREL Evaluations
Utilize prescriptive teacher assessments of technology skills and implementation to develop professional improvement plans for teachers and administrators.	☆ All Administrators	Ongoing	☆ Surveys ☆ Evaluations ☆ Individual PD Plans
Provide staff recognition for achievement of core proficiencies as exemplified by ISTE (standards for teachers) and TSSA (standards for administrators).	☆ All Administrators	Ongoing	☆ Evaluation ☆ Memo ☆ Staff perform peer training

## District

Goal 3

Educational technology will be accessible by students, teachers and administrators and utilized for instructional and administrative purposes in all learning environments, including classrooms, library media centers, and other educational settings such as community centers and libraries.

*Strategy 3.1:* The district will implement their Acceptable Use Policy (AUP) and other means to ensure that all members of the learning community are able to use technological systems, online resources and software in a safe, ethical and secure manner.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Acceptable Use Policies (AUP) for all users. This will be reviewed yearly and revised as needed.	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Technology Coordinator</li> </ul>	Yearly and as new staff and students join district	<ul style="list-style-type: none"> <li>☆ Signed AUP</li> <li>☆ Copy of AUP on website</li> </ul>
Education of administrators and administrative staff members in the ethical use of computers.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Sign-in Sheets</li> <li>☆ Handouts</li> <li>☆ Technology Webpage</li> </ul>
Maintenance of records that authorize use of a student's personal information on district- or school-based web sites. (NJ Bill A592 <a href="http://www.state.nj.us/njded/techno/idconsent/">http://www.state.nj.us/njded/techno/idconsent/</a> )	<ul style="list-style-type: none"> <li>☆ School Principals</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>☆ Signed documents</li> <li>☆ Searchable Spreadsheet</li> </ul>

*Strategy 3.2:* All educators will have access to technical support via a technician and/or other means as necessary to maintain equipment and infrastructure.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Maintain a contracted Technology Coordinator.	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Board of Education</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Personnel Record</li> <li>☆ Board Approval of Re-instatement</li> </ul>
Reassess technology staffing needs	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Technology Coordinator</li> <li>☆ Board of Ed</li> <li>☆ Business Admin</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Trouble Ticket reports and load</li> <li>☆ Expansion Projects</li> </ul>
Maintain a ticketing system for staff to initiate trouble tickets.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>☆ Ticketing System (currently Secure School)</li> </ul>



*Strategy 3.3: The district will have a web site that meet the following criteria:*

- ☆ Informative, interactive and timely
- ☆ relevant to school and local community
- ☆ contains links to educational materials and the schools (email, portals, departments)
- ☆ meets accessibility standards (Section 508 compliant (<http://www.section508.gov/>) and National Instructional Materials Accessibility Standards (<http://nimas.cast.org/>)).

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/indicators
Review school and district web sites in relation to alignment with New Jersey's state accessibility statements.	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Technology Coordinator</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ <a href="http://www.section508.gov">http://www.section508.gov</a></li> <li>☆ <a href="http://nimas.cast.org/">http://nimas.cast.org/</a></li> </ul>
Lists of district and school resources for students and parents/legally designated caregivers through website	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ District Administrators</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>☆ Survey Feedback</li> <li>☆ Teacher Requests</li> <li>☆ Parent Requests</li> </ul>
Update District site regularly – and redesign if needed based on assessments (surveys)	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Admin. Asst. to Superintendent</li> <li>☆ Tech. Coordinator</li> </ul>	Ongoing Update at least weekly	<ul style="list-style-type: none"> <li>☆ Website</li> <li>☆ Survey Feedback</li> </ul>

# BERLIN TOWNSHIP SCHOOL DISTRICT THREE YEAR TECH PLAN

*Strategy 3.4:* The district will provide access to the Internet and multimedia content in all learning environments that supports a student-to-multimedia device ratio that equals 3:1 for both schools with an ultimate goal of providing one to one access for students (Grades 5-8) for anywhere/anytime learning.

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources
Maintain inventory of hardware and software	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Curriculum Supervisor</li> </ul>	Yearly - ongoing	<ul style="list-style-type: none"> <li>☆ Access Database</li> </ul>
Collaborate with community resources to establish access beyond the school day. (Local libraries or clubs)	<ul style="list-style-type: none"> <li>☆ Superintendent</li> <li>☆ Technology Staff</li> <li>☆ Library Staff</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Website links</li> <li>☆ Flyers</li> <li>☆ E-Mails</li> </ul>
Facilitate communication between informational technology, educational technology, assistive technology and curriculum professionals so that the district's technological resources can be used to support the learning and achievement of all students.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Superintendent</li> </ul>	Monthly	<ul style="list-style-type: none"> <li>☆ Technology Committee</li> <li>☆ Superintendent Council</li> <li>☆ E-Mails</li> </ul>
Reallocate devices currently in district that are not being fully utilized to areas of need. (Either between classrooms or buildings).	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ Curriculum Supervisor</li> <li>☆ Building Principals</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Survey Feedback</li> <li>☆ Tech Committee input</li> <li>☆ Teacher Observations</li> </ul>
Purchase devices according to replacement schedule and needs assessments (surveys)	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Survey Feedback</li> <li>☆ Inventory Database</li> </ul>

### District Reflection and Adjustment Plan

There will be yearly analysis of annual technology goals by the District's technology committee. Committee members will analyze the data gathered in surveys, feedback forms, and evaluations to determine the effectiveness of our current plan. Based on this information, decisions will be made as to whether to continue as currently outlined or if the technology plan needs to be updated to reflect new technology or training needs.

### Budget

Goal #	Activity	Funding Source (Fed/State/Local)	Amount
1.1	Upgrade Wireless	Federal/Local	\$80,000
1.2	Upgrade Firewall/Web Filter	Federal/Local	\$12,000
1.3	Upgrade Fiber	Local	\$20,000
1.4	Internet Access	Federal/Local	TBD
2.1	Administrator PD	Local	TBD
2.2	Administrator Modeling	Local	\$0
2.3	Evaluations	Local	TBD
3.1	Acceptable Use Policies	Local	\$0
3.2	Technology Staff	Local	\$75,000
3.3	Website	Local	\$2,400
3.4	Provide Access to Internet and Devices	Local	\$25,000

## John F Kennedy Elementary School

Goal 1

All teaching staff will attain the 21st century skills and knowledge of the Technology 8.0 (includes 8.1 & 8.2 standards) necessary to effectively integrate educational technology in order to enable students to achieve the goals of the core curriculum content standards and experience success in a global society.

*Strategy 1.1:* Determine what Professional Development is required for teachers to effectively integrate technology and ensure that the school's existing professional development plan includes the following activities that support integration of 21st century skills across the curricula:

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Assemble a list of current professional development activities. (This is ongoing since last technology plan).	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Superintendent</li> <li>☆ Curriculum Supervisor</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Teacher Surveys</li> </ul>
Evaluate current professional development related to curricula to assure it models and instructs in the effective use of technology.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Curriculum Supervisor</li> </ul>	Ongoing (All Year)	<ul style="list-style-type: none"> <li>☆ PD Feedback Forms</li> <li>☆ Curriculum Review</li> <li>☆ Teacher Observations</li> <li>☆ Informal and Formal Evals</li> </ul>
Evaluate the effectiveness of the professional development activities throughout the district.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Curriculum Supervisor</li> </ul>	Ongoing (All Year)	<ul style="list-style-type: none"> <li>☆ PD Feedback Forms</li> <li>☆ Curriculum Review</li> <li>☆ Teacher Observations</li> <li>☆ Informal and Formal Evals</li> </ul>
Catalog future professional development opportunities that support ongoing, effective and relevant staff development programs that are based on evaluation results. (This is ongoing since last technology plan).	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Administrators</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Surveys</li> <li>☆ Individual PDPs</li> <li>☆ Summative Evals</li> </ul>

# BERLIN TOWNSHIP SCHOOL DISTRICT THREE YEAR TECH PLAN

*Strategy 1.2: Provide Professional Development for learning and implementing Common Core Standards – 8.1 Educational Technology & 8.2 Technology Education, Engineering and Design* (<http://www.state.nj.us/education/cccs/2014/tech/8.pdf>).

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Learning and understanding the 8.1 & 8.2 Technology Standards.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars</li> <li>☆ Sign-in sheets</li> <li>☆ Staff PD Review Sheets</li> <li>☆ <a href="http://www.state.nj.us/education/cccs/2014/tech/8.pdf">http://www.state.nj.us/education/cccs/2014/tech/8.pdf</a></li> </ul>
Research of what these standards look like in a classroom environment for the teachers' specific grade level and subject matter.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars</li> <li>☆ Sign-in sheets</li> <li>☆ Staff PD Review Sheets</li> <li>☆ <a href="http://www.nj.gov/education/techno/s8at/">http://www.nj.gov/education/techno/s8at/</a></li> </ul>
Beginning implementation of the CCSS 8.1 & 8.2 into lesson plans.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ Lesson Plans</li> <li>☆ Observations</li> <li>☆ Evaluations</li> <li>☆ Curriculum Writing</li> <li>☆ <a href="http://www.nj.gov/education/techno/s8at/tab07/">http://www.nj.gov/education/techno/s8at/tab07/</a></li> </ul>
Full implementation of CCSS 8.1 & 8.2 Technology into classes.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ Lesson Plans</li> <li>☆ Observations</li> <li>☆ Evaluations</li> </ul>

BERLIN TOWNSHIP SCHOOL DISTRICT THREE YEAR TECH PLAN

*Strategy 1.3: Provide Professional Development for learning and implementing Google Apps for Education, Chromebooks (Gr 2-3), and SMART Boards/Panels/Notebook.*

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Google Apps for EDU training ☆ Classroom ☆ Docs ☆ Sheets ☆ Drive	☆ JFK Principal ☆ Teachers ☆ Curriculum Supervisor	To be completed by June 15, 2017	☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars ☆ Sign-in sheets ☆ Staff PD Review Sheets
SMART Board/Panel and Notebook Training	☆ JFK Principal ☆ Teachers ☆ Curriculum Supervisor	To be completed by June 15, 2017	☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars ☆ Sign-in sheets ☆ Staff PD Review Sheets
Implementation of the Google Apps (Chromebooks Gr. 2-3) into Class Lessons	☆ JFK Principal ☆ Teachers ☆ Curriculum Supervisor	September 1, 2017 – June 15, 2018	☆ Lesson Plans ☆ Observations ☆ Evaluations ☆ Chromebook Usage Form (Gr 2-3)
Implementation of SMART Board/Panel and Notebook into Class Lessons.	☆ JFK Principal ☆ Teachers ☆ Curriculum Supervisor	September 1, 2017 – June 15, 2018	☆ Lesson Plans ☆ Observations ☆ Evaluations

# John F Kennedy Elementary School

## Goal 2

Educational technology will be accessible by students, teachers and administrators and utilized for instructional and administrative purposes in all learning environments, including classrooms, library media centers, and other educational settings such as community centers and libraries.

*Strategy 2.1: The school and teachers will have a web site that meet the following criteria:*

- ☆ Informative, interactive and timely
- ☆ relevant to school and local community
- ☆ contains links to educational materials (email, portals, departments, homework, menus, etc.)
- ☆ meets accessibility standards (Section 508 compliant (<http://www.section508.gov/>) and National Instructional Materials Accessibility Standards (<http://nimas.cast.org/>)).

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/indicators
Review school and teacher websites in relation to alignment with New Jersey's state accessibility statements.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Technology Coordinator</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ <a href="http://www.section508.gov">http://www.section508.gov</a></li> <li>☆ <a href="http://nimas.cast.org/">http://nimas.cast.org/</a></li> </ul>
List school resources for students and parents/legally designated caregivers through website	<ul style="list-style-type: none"> <li>☆ Tech. Coordinator</li> <li>☆ JFK Principal</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>☆ Survey Feedback</li> <li>☆ Teacher Requests</li> <li>☆ Parent Requests</li> </ul>
Update school website (School In Sites) and redesign if needed based on assessments (surveys)	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Tech. Coordinator</li> </ul>	Ongoing Update at least weekly	<ul style="list-style-type: none"> <li>☆ Website</li> <li>☆ Survey Feedback</li> <li>☆ Parent and student needs</li> </ul>
Update teacher websites (OnCourse)	<ul style="list-style-type: none"> <li>☆ Teachers</li> </ul>	Ongoing Update Monthly	<ul style="list-style-type: none"> <li>☆ Website</li> <li>☆ Principal review of teacher site to verify updating</li> </ul>

*Strategy 2.2: Accessible and diverse technologies available in classrooms and central areas (media center & lab).*

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Media Center will be re-configured and upgraded with a Multi-Use area for: maker space (Creation Station), laptop usage, and reading.	<ul style="list-style-type: none"> <li>☆ JFK Principal</li> <li>☆ Superintendent</li> <li>☆ Tech Coord.</li> </ul>	Summer of 2016	<ul style="list-style-type: none"> <li>☆ New laptops and cart to be purchased for mobility</li> <li>☆ Stationary desktops set-up on table(s)</li> </ul>
Chromebook carts will be available to sign-up for teachers in Grade 3	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ JFK Principal</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ 2 Chromebook carts of 25 Chromebooks each will be purchased and shared</li> <li>☆ Sign-out sheets will be used</li> </ul>
Chromebook carts will be available to sign-up for teachers in Grade 2	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ JFK Principal</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ 2 Chromebook carts of 20 Chromebooks each will be purchased and shared</li> <li>☆ Sign-out sheets will be used</li> </ul>
Assessments will be given to determine usage and effectiveness of Chromebooks. This will determine if more/less are needed.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ JFK Principal</li> </ul>	EOY 2018 (May 2018)	<ul style="list-style-type: none"> <li>☆ Sign-out sheets</li> <li>☆ Survey</li> <li>☆ Lesson Plans that include activities using the Chromebooks</li> </ul>
Classroom laptops will be replaced per refresh schedule and assessment needs	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ JFK Principal</li> </ul>	FY 2017-2018 Ongoing	<ul style="list-style-type: none"> <li>☆ Surveys</li> <li>☆ Tech usage per lessons</li> <li>☆ Technology Inventory</li> </ul>
SMART Panels will be purchased and installed for rooms that do not have any interactive devices and for SMART Boards that are End of Life	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ JFK Principal</li> <li>☆ Supervisor of Grounds</li> <li>☆ Business Admin.</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Technology Inventory</li> <li>☆ Budget</li> </ul>



### John F Kennedy Reflection and Adjustment Plan

There will be yearly analysis of annual technology goals by the District's technology committee. Committee members will analyze the data gathered in surveys, feedback forms, and evaluations to determine the effectiveness of our current plan. Based on this information, decisions will be made as to whether to continue as currently outlined or if the technology plan needs to be updated to reflect new technology or training needs.

### Budget

Goal #	Activity	Funding Source (Fed/State/Local)	Amount
1.1	Professional Development	Local	\$1,000
1.2	Professional Development	Local	\$1,000
1.3	Professional Development	Local	\$1,000
2.1	Website	Local	\$0
2.2	Technology Devices	Local	\$15,000

## Dwight D Eisenhower Middle School

Goal 1

All teaching staff will attain the 21st century skills and knowledge of the Technology 8.0 (includes 8.1 & 8.2 standards) necessary to effectively integrate educational technology in order to enable students to achieve the goals of the core curriculum content standards and experience success in a global society.

*Strategy 1.1:* Determine what Professional Development is required for teachers to effectively integrate technology and ensure that the school's existing professional development plan includes the following activities that support integration of 21st century skills across the curricula:

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Assemble a list of current professional development activities. (This is ongoing since last technology plan).	☆ DDE Principal	Yearly	☆ Teacher Surveys ☆ PD Plans (indicator)
Evaluate current professional development related to curricula to assure it models and instructs in the effective use of technology.	☆ DDE Principal ☆ Curriculum Supervisor	Ongoing (All Year)	☆ PD Feedback Forms ☆ Curriculum Review ☆ Teacher Observations ☆ Informal and Formal Evals
Evaluate the effectiveness of the professional development activities throughout the district.	☆ DDE Principal ☆ Curriculum Supervisor	Ongoing (All Year)	☆ PD Feedback Forms ☆ Curriculum Review ☆ Teacher Observations ☆ Informal and Formal Evals
Catalog future professional development opportunities that support ongoing, effective and relevant staff development programs that are based on evaluation results. (This is ongoing since last technology plan).	☆ DDE Principal ☆ Administrators	Yearly	☆ Surveys ☆ Individual PDPs ☆ Summative Evals

# BERLIN TOWNSHIP SCHOOL DISTRICT THREE YEAR TECH PLAN

*Strategy 1.2: Provide Professional Development for learning and implementing Common Core Standards – 8.1 Educational Technology & 8.2 Technology Education, Engineering and Design (<http://www.state.nj.us/education/cccs/2014/tech/8.pdf>).*

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Learning and understanding the 8.1 & 8.2 Technology Standards.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars</li> <li>☆ Sign-in sheets</li> <li>☆ Staff PD Review Sheets</li> <li>☆ <a href="http://www.state.nj.us/education/cccs/2014/tech/8.pdf">http://www.state.nj.us/education/cccs/2014/tech/8.pdf</a></li> </ul>
Research of what these standards look like in a classroom environment for the teachers' specific grade level and subject matter.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> <li>☆ Tech Committee</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ PD time in staff meetings, team meetings, in-service days, resident experts, and out of districts seminars</li> <li>☆ Sign-in sheets</li> <li>☆ Staff PD Review Sheets</li> <li>☆ <a href="http://www.nj.gov/education/techno/s8at/">http://www.nj.gov/education/techno/s8at/</a></li> </ul>
Beginning implementation of the CCSS 8.1 & 8.2 into lesson plans.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ Lesson Plans</li> <li>☆ Observations</li> <li>☆ Evaluations</li> <li>☆ Curriculum Writing</li> <li>☆ <a href="http://www.nj.gov/education/techno/s8at/tab07/">http://www.nj.gov/education/techno/s8at/tab07/</a></li> </ul>
Full implementation of CCSS 8.1 & 8.2 Technology into classes.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Teachers</li> <li>☆ Curriculum Supervisor</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ Lesson Plans</li> <li>☆ Observations</li> <li>☆ Evaluations</li> </ul>

## Dwight D Eisenhower Middle School

Goal 2

Educational technology will be accessible by students, teachers and administrators and utilized for instructional and administrative purposes in all learning environments, including classrooms, library media centers, and other educational settings such as community centers and libraries.

*Strategy 2.1: The school and teachers will have a web site that meet the following criteria:*

- ☆ Informative, interactive and timely
- ☆ relevant to school and local community
- ☆ contains links to educational materials (email, portals, departments, homework, menus, etc.)
- ☆ meets accessibility standards (Section 508 compliant (<http://www.section508.gov/>) and National Instructional Materials Accessibility Standards (<http://nimas.cast.org/>)).

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/indicators
Review school and teacher websites in relation to alignment with New Jersey's state accessibility statements.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Technology Coordinator</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ <a href="http://www.section508.gov">http://www.section508.gov</a></li> <li>☆ <a href="http://nimas.cast.org/">http://nimas.cast.org/</a></li> </ul>
List school resources for students and parents/legally designated caregivers through website	<ul style="list-style-type: none"> <li>☆ Tech. Coordinator</li> <li>☆ DDE Principal</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>☆ Survey Feedback</li> <li>☆ Teacher Requests</li> <li>☆ Parent Requests</li> </ul>
Update school website (School In Sites) and redesign if needed based on assessments (surveys)	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Tech. Coordinator</li> </ul>	Ongoing Update at least weekly	<ul style="list-style-type: none"> <li>☆ Website</li> <li>☆ Survey Feedback</li> <li>☆ Parent and student needs</li> </ul>
Update teacher websites (OnCourse)	<ul style="list-style-type: none"> <li>☆ Teachers</li> </ul>	Ongoing Update Monthly	<ul style="list-style-type: none"> <li>☆ Website</li> <li>☆ Principal review of teacher site to verify updating</li> </ul>

# BERLIN TOWNSHIP SCHOOL DISTRICT THREE YEAR TECH PLAN

*Strategy 2.2: Accessible and diverse technologies available in classrooms and central areas (media center & lab).*

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity	Timeline (mm/yr span)	Resources/Indicators
Media Center will be re-configured with a Multi-Use area for: maker space (Creation Station), Genius Bar, and Classroom Usage.	<ul style="list-style-type: none"> <li>☆ DDE Principal</li> <li>☆ Superintendent</li> <li>☆ Tech Coord.</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ Tables and Desktops moved to side where projector is located</li> <li>☆ Creation Station/Genius Bar will be stationed near librarian's office with a desktop, laptop, Chromebook, and iPad.</li> </ul>
Chromebook carts will be available to sign-up for teachers in Grade 4	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	FY 2016-2017	<ul style="list-style-type: none"> <li>☆ 2 Chromebook carts of 20 Chromebooks each will be purchased and dispersed</li> <li>☆ Sign-out sheets will be used</li> </ul>
Assessments will be given to determine usage and effectiveness of Chromebooks. This will determine if more/less are needed.	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> </ul>	EOY 2017 (May 2017)	<ul style="list-style-type: none"> <li>☆ Sign-out sheets</li> <li>☆ Survey</li> <li>☆ Lesson Plans that include activities using the Chromebooks</li> </ul>
Classroom laptops will be replaced per refresh schedule and assessment needs	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ DDE Principal</li> </ul>	FY 2017-2018	<ul style="list-style-type: none"> <li>☆ Surveys</li> <li>☆ Tech usage per lessons</li> <li>☆ Technology Inventory</li> </ul>
One-to-one initiative for grades 5-8 with Chromebooks (only in school).	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ DDE Principal</li> <li>☆ Superintendent</li> </ul>	FY 2018-2019	<ul style="list-style-type: none"> <li>☆ Surveys</li> <li>☆ Tech usage in lesson plans</li> <li>☆ Technology Inventory</li> <li>☆ Budget</li> </ul>
Epson Bright links will be purchased for rooms that do not have any interactive devices and for SMART Boards that are End of Life	<ul style="list-style-type: none"> <li>☆ Technology Coordinator</li> <li>☆ DDE Principal</li> <li>☆ Supervisor of Grounds</li> </ul>	Yearly	<ul style="list-style-type: none"> <li>☆ Technology Inventory</li> <li>☆ Budget</li> </ul>

### Dwight D. Eisenhower Reflection and Adjustment Plan

There will be yearly analysis of annual technology goals by the District's technology committee. Committee members will analyze the data gathered in surveys, feedback forms, and evaluations to determine the effectiveness of our current plan. Based on this information, decisions will be made as to whether to continue as currently outlined or if the technology plan needs to be updated to reflect new technology or training needs.

### Budget

Goal #	Activity	Funding Source (Fed/State/Local)	Amount
1.1	Professional Development	Local	\$1,000
1.2	Professional Development	Local	\$1,000
2.1	Website (School and Teacher)	Local	\$0
2.2	Technology Devices	Local	\$15,000

## Technology Plan Components Checklist

District Name: Berlin Township School District

NJTRAx PARCC Technology Readiness Rating: 9

NJTRAx Digital Learning Readiness Rating: NA – we provided our own surveys this year

<i>STEP</i>		<i>YES</i>	<i>NO</i>
1.	District Vision Included	X	
2.	NJTRAx technology readiness system for the district and for each school was updated.	X	
3.	Surveys for each school were completed. (We created our own – see attached)	X	
4.	School-based Goals, Strategies, Objectives and Indicators are included for each identified school.	X	
5.	Reflection and adjustment plan is included.	X	
6.	School-based plan for infusion of technology within instruction is clearly understood.	X	
7.	School-based Reflection & Adjustment is included for each identified school.	X	
8.	School-based budget is included to support activities in Action Plan.	X	

## Special Thanks

A special thanks goes to the Technology Committee members who spent hours helping to write the survey questions and this tech plan.

Edythe Austermuhl  
Marilyn Bright  
Michael Murphy  
Jeff Patterson  
Chuck Pfluger  
Danielle Iacovelli  
Emily Mason  
Evan Lindner  
Frank Pupa  
Nancy Sims  
Stacey DeCaro  
Tara Williams-Smith  
Tim VanCuren  
Polly Hearn  
Stephanie Bannan  
Mary Williams  
Sol Cohen



## Stakeholder Assurance

Stakeholder Name	Stakeholder Title	Stakeholder Signature
Edythe Austermuhl	District Superintendent	Edythe Austermuhl
Marilyn Bright	Principal, DDE	Marilyn Bright
Michael Murphy	Principal, JFK	Michael Murphy
Jeffrey Patterson	Curriculum Supervisor	Jeffrey Patterson
Amy Berth	Technology Coordinator	Amy Berth
Nancy Sims	Teacher	Nancy Sims
Stacey DeCaro	Teacher	Stacey DeCaro
Stephanie Bannan	Parent	Stephanie Bannan
Mary Williams	Board Member	Mary Williams
	Board Member	



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# SUMMARY OF PARENT SURVEY

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Tech Survey 2016



MAY 11, 2016

BTWP

Amy Berth

# Summary of Choice Questions:

What grade(s) does your child(ren) attend?

169 out of 169 people answered this question

1	2nd	30 / 18%
2	3rd	30 / 18%
3	1st	27 / 16%
4	4th	27 / 16%
5	Pre-K	26 / 15%
6	6th	24 / 14%
7	Kindergarten	24 / 14%
8	8th	23 / 14%
9	5th	18 / 11%
10	7th	14 / 8%

I have Internet access at home.

169 out of 169 people answered this question

1	Yes, wireless only	82 / 49%
2	Yes, both wired and wireless	78 / 46%
3	No	6 / 4%
4	Yes, wired only	3 / 2%

### I have the following devices at home:

169 out of 169 people answered this question

1	Tablet (Kindle, iPad, etc)	134 / 79%
2	Laptop	126 / 75%
3	Desktop	73 / 43%
4	Other	37 / 22%
5	No devices at home	3 / 2%

### I have a mobile device (cell phone or 3/4G connected tablet) with Internet access.

169 out of 169 people answered this question

1	Yes	163 / 96%
2	No	6 / 4%

### I use a computer at work.

169 out of 169 people answered this question

1	Yes	117 / 69%
2	No	52 / 31%

### How often do you access the OnCourse Connect?

169 out of 169 people answered this question

Average: 3.28



► Hide detail



### My child has a personal social networking site (e.g. Facebook).

169 out of 169 people answered this question



## Technology is critical to the learning experience of students.

169 out of 169 people answered this question

Average: 2.22



► Hide detail



## My student's current access to technology in school is regular and adequate..

169 out of 169 people answered this question

Average: 2.57



► Hide detail





### My student has strong technology skills.

169 out of 169 people answered this question

Average: 2.50



► Hide detail



### I assist my child in using a computer for school projects.

169 out of 169 people answered this question

Average: 3.17



► Hide detail



The school/teachers use technology for communicating with our home and family (web pages, voice messaging, e-mail)

169 out of 169 people answered this question

1	Yes	163 / 96%
2	No	6 / 4%

How would you like to receive information from the school?

169 out of 169 people answered this question

1	Email	137 / 81%
2	Text Message	133 / 79%
3	Flyers	63 / 37%
4	Phone Call	50 / 30%
5	Remind 101	37 / 22%
6	Website	37 / 22%
7	Other	3 / 2%



### How often do you visit the Berlin Township School District website for information?

169 out of 169 people answered this question

Average: 3.31



► Hide detail



### How would you rate your experience with the Berlin Township School District website?

169 out of 169 people answered this question

Average: 2.25



► Hide detail



I would be interested in technology training classes for parents at the school.

168 out of 169 people answered this question

1	No	110 / 65%
2	Yes	58 / 35%

If interested in training, what training would you like to attend?

118 out of 169 people answered this question

1	School-related apps	54 / 46%
2	OnCourse Portal	44 / 37%
3	Google Docs	39 / 33%
4	Microsoft Office	39 / 33%
5	Google Slides	32 / 27%
6	Renaissance Learning	30 / 25%
7	Google Sheets	27 / 23%
8	Library Card Catalog	22 / 19%
9	GMail	16 / 14%

Would you like to be a parent-trainer for any parent-based workshops?

164 out of 169 people answered this question

1	No	142 / 87%
2	Yes	22 / 13%

# Written Responses:

Please describe below what likes, dislikes, features, and enhancements (if any) you would like to see on the <a href="http://www.btwpschools.org">www.btwpschools.org</a> website.
More Up to date info on What's going on weekly in week at glance!
Would like to see more updates on teachers site.
Everything has been ok for me
Can't think of any
N/a
I am happy with website
No compl
More up to date information
None
None
More updates information
Can't say I have any problems with it now.
Not up to date and difficult to navigate
N/a
Updated everyday and I would use it
No problems at all
N/A
Sometimes it's hard to find certain things. If more user friendly links were on homepage that would be great. You do not need to have a lot of useless info and most stuff on site is outdated.
Relatively easy to find the information I am looking for
More paperless communication
I like it
I find the website easy to navigate
Great tool for knowing what is going on.
Caint print homework assignment
Sometimes I don't find what an looking for
I have not used it yet
It is adequate and provides information I need.
I like it
Connection to oncourse because the works on one and the teacher links are on other
Homework On teachers websites
Everything is good.
Snow Days and Delays announced
I don't use it.
More access to print forgotten homework.

The website is uninviting and out dated. It could be more user friendly
More pics or day to day updates...assemblies, special things upcoming so I know what my student is trying to relay to me ;)
I like that it's easy to navigate
Rarely use it
none
N/a
Ggg
No complaints
Could be more "user friendly" if the options were available with tabs - I often find it to take many steps of navigating before I find what needed
It's fine
It is fine and easily accessible. Maybe any headlines news or events happening could be highlighted or scrolling.
None
It is a wonderful site. It has a lot of useful links to help my child grow.
I think weekly updates of school events / school functions / test / class updates ..
It is hard to navigate. Also, because I rarely need to go there, I don't know.new things are there.
Easy and regularly updated FAQ search engine. Access to teacher lesson plans / daily writing exercises (ie: writing HW in a planner every day) to ensure a proper balance between the tech slang/shortcuts and the physical ability.
The website is user friendly
Please have the proper information, most of the times email addresses are wrong, and the calendar is never updated
Thr website is pretty much ok.
Needs to be updated with teacher websites, needs an electronic backpack with all of the flyers, needs a way to connect to paying for lunch electrinnically, should connect to oncourse and any other programs used in school, links should work (e.g. CARE linktakes you nowhere).
None
?
No complaints.
The site's appearance seems antiquated. Very simple template. Does not entice clicks or return visits.
A
None
The navigation is not logical. You can't access anything quickly. You have to go through the entire menu structure to get what you are looking for. Not all the info you need it on the site. Some things are not updated regularly.
na
na
na
I do not know

It is not easy to email or contract teachers thru the website.....listing should provide their email address so parents to contact teachers without the website making you utilize outlook....because so do not have it.....
n/a
Sometimes it's a little hard to locate a specific section I'm looking for, i.e., the Technology Survey seemed a bit hidden when I got to the main website.
none
So far it is good.
None
none don't use
The website is not user friendly at all. Nothing is easy to find. Nothing is updated. Very limited information. The school calendar is very bad. Teachers don't use it
I would like to see the teacher's websites updated more regularly. It seems like they do it at the beginning of the year, and that's all.
Latest news rarely has any updates - only one in 2016. If there aren't latest news updates why should we check the website?
Unsure
Nothing
na
None at this time
A way to download/import the school calendar to my personal calendar.
NA
Website is fine.
A calendar with monthly events happening in the school
nothing
n/a
No dislikes. I love it, important info/easy to access.
NA
Don't have any
none
none
I had times email failed via the school district website. All fail received confirmation, but teachers did not get it.
none
none
none
none
Sorry, can't open website. It gives error code 404. I tried around 5:50PM EST on 4/5/16
na
Unable to find Mr. Murphy's email address. All contact information should be available. Website is not useful. Most information is too hard to find or not available.
none
none

none
?
none
none
I think the website should have the students who won awards.
1- encouraging the use of public neighborhood parks 2-Posting playground playdates or friends networking activities (in the township)
none
none
none
The website is pretty easy to use. The only issue I have ever run into is scheduling a conference bc I do not have a computer to use flash player.
none
none
none
none
I think the website is good. I navigate it pretty easily.
none
none
none
none
none
none
none
none
Better communication and updates on events that relate to every grade more thoroughly and individually.
Hard to find info about after school activities. ie. Chorus
sports links, upcoming sport sign ups, etc
I haven't seen it yet.
none
I think that technology is good for my child
I would love to see links to oncourse straight from the site
I would not like any changes.
More consistency with classroom pages.
It is sometimes difficult to find information on the website (in the past, I had a hard time finding the calendar). Also, I would like to see next year's calendar further in advance (families often book vacations or plan things for the fall in the spring).
I do not have a comment at this time.
none
none
none
none

Extra tutoring help
none
none
n/a
None at this time
na
na
Nothing, everything is ok. No changes
None
easy to understand , I would like to be able to see the lunch menu for april
na
Normal
Mobile site could be better
An up to date school calender. The one posted doesn't accurately state dates the students have off.
Nothing
Would like to see homework and projects posted on the website not just oncourse
actual email addresses instead of links so we can figure out the emails of people not listed on the site if we need to email them. It is annoying when I have a question for the secretary and need to call since there isn't a link or email anywhere on the site.
I don't like the separation between oncourse and website. One place has to be were all information is found, not in two. The calendar for school activities should be on oncourse and much more updated. Oncouse and technology, also, should make it much easier for teachers to communicate with parents and instead I feel like it has caused a break in communication and relationships. I never really have any communciation with teachers and they are seem almost annoyed and when they receive it. Instead of welcoming parent communication, they are cutting it off. Technology does need to be taught to be efficient, but in the school atmosphere where it is not utilized correctly and used as a barrier, I feel it does more harm then good.
Na
Na
All good.
Na
Na
Na
No
None.

Please leave any other suggestions related to technology in the district.
Nm
N/a
texting info to parents is a great way to send out information
Na
N/a
No suggestions
No comm
None
None
None
Great job
On course need to be advertised more... Not even sure how to get to it and been with the school 5 years.
N/a
?
N/a
N/A
--
I have knowledge with all social media platforms
None at this time
None
I am happy with everything
I have no suggestions at this time.
Good job
It's fair could be updated more often
Facebook,Instagram,musicl, quiz up or any other social networks ours kids use this days
Foreign language programs such as Rosetta stone
Financial peace university classes for parents.
Dave Ramsey program
I like everything
N/A
I don't have any right now
N/A
None
Would love for each kid to have an ipad or laptop
N/A
Doing great
The on course website should provide missing assignments notifications and grades below a certain percentage



I think it's ok
No suggestions
On Course should be used just for grades. Its use for homework assignments does not seem to be working too well.
none
N/a
G
N/a
Other schools assign laptops or tablets to the children for the school year - this way they can explore & be excited to do more research at home etc. also the children should NOT share headphones NEVER! Too much head lice issues.
Not any at this time.
None
:-)
I feel the students need to have chrome carts w chrome books in every class . I think the kids will benefit for math homework / test / prepare for parcc. Each student will learn by researching on Google , type essays / narratives / book talks .. This is what are future is for our students .. I strongly feel every student should have access to a chrome book daily ..
Remind and class dojo are awesome for communication with teachers. The township phone reminders need separate sign ups/streams for emergencies/school closings vs. Events and surveys.
Please do not sacrifice my children's penmanship to teach them how to retweet a pic or update a check in
no suggestions at this time.
No
Nothing at this time
I'm not even sure what type of computers the students are currently using. Is there any way to do a laptop program or ipad program as seen in other districts?
None
None
N/A
Home based AR reading tests would be helpful.
A
None
NO
na
na
na
I do not know
n/a
Most kids know how to use a cell phone, however, every cell phone is different and some require a password to unlock. I, myself, do not have a house line, so in the case of an emergency my young son needs to know how to dial 911 from the cell phone.
none

Keep up the good job you doing.
None
none don't use
The school has no technology. They need to bring it into the classrooms. Not just a few. Assignments should be able to be completed on the computer, emailed to teachers instead of by paper, and actually be given assignments that incorporate technology . With all of the educational websites available and the district "focusing on 21st century education" they should be using it.
N/A
Technology should be increased every year. Our children are still young so they have had limited access to computers etc. which is understandable. Perhaps a new special could be added as technology.
I don't have any.
none
na
Nothing at this time
Increase student contact time with technology at the elementary school.
NA
N/A
A user friendly website Maybe a suggestion box or a system where parents can ask questions on the school website like a blog for Berlin parents
nothing
n/a
None
Teachers don't access OnCourse Connect often.
none
none
none
None
none
none
none
none
Please give feedback on what kind of technology interaction students in Pre-K class have in school and how they react to it.
none
Teacher does not initiate electronic communication - only responds when parent emails.
none
none
none
none

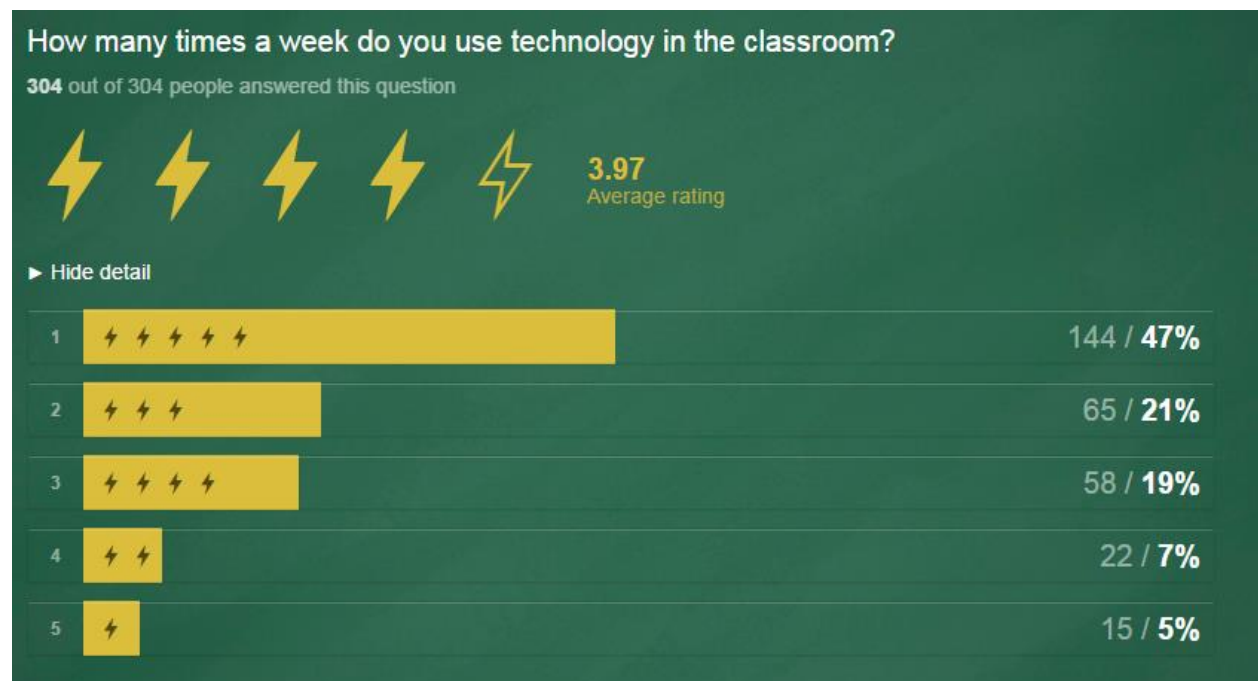
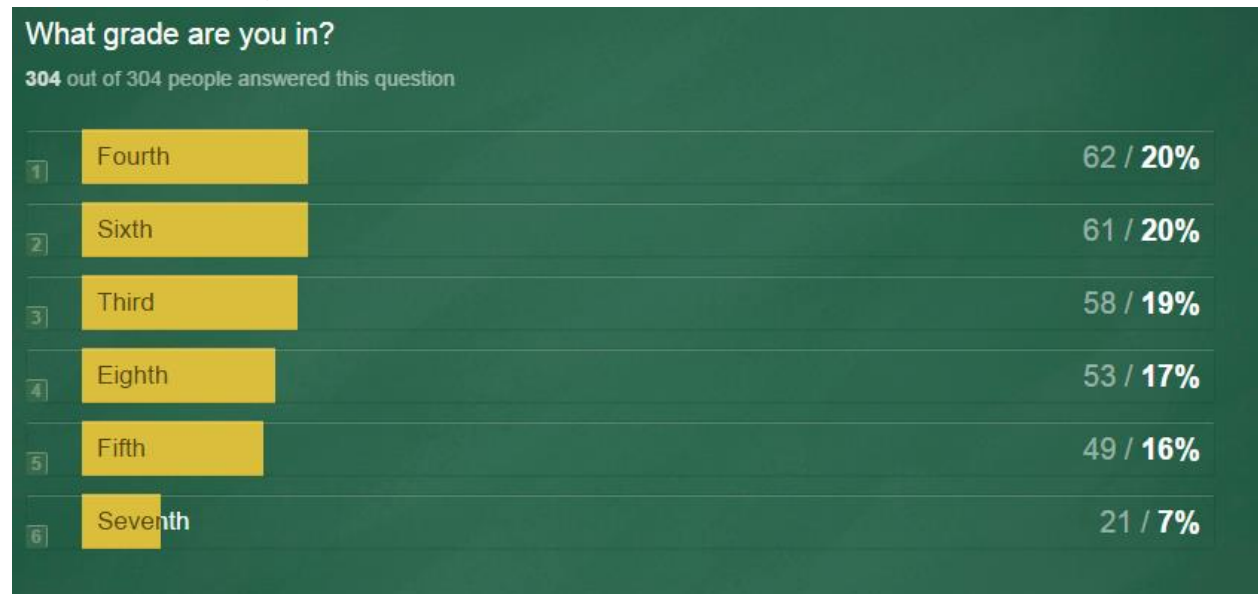
The children should be encouraged to monitor their technology use and learn to live with it minimally. Children today are encouraged to use technology too much and can't function if it happens to be taken away. They need to be taught that it is a privilege, not a necessity. BTW, I am 28 years old so this is not coming from an old, out-of touch woman. :) Please ONLY allow students to use it where it is most needed.
none
None
1 - A kids or family corner...any partnerships with local township businesses or groups 2- Communicate community capacity opportunities (clean up, student service projects) 3 - Picture Posting
you guys are doing a good job
I think there should be open library time for parents and kids who don't have access to computers at home
I don't need any other suggestions.
I am currently unable to access on course. I have tried to reset my info but am locked out. In the past I have frequented the site often and think it is an awesome way to stay informed.
I would communicate with teachers via the webpage, but we email which works.
i do not have any comments at this time.
My son's class (3rd grade) is really enjoying Google Classroom and I'd like my older children (4th grade) to experience it as well.
Foreign language courses and basic survival skill courses.
Thanks
I don't have any.
More computers in the classrooms for use.
willing to do mic office parent training if offered
More availability
none
Use each software fully and in its entirety.
Na
Na
Accessible Web camera in class room would be nice



# Student Tech Survey

2016

# Summary of Choice Questions



How many days a week does your teacher use technology while teaching, such as a computer/iPad and projector, document camera or SMART board?

304 out of 304 people answered this question



► Hide detail



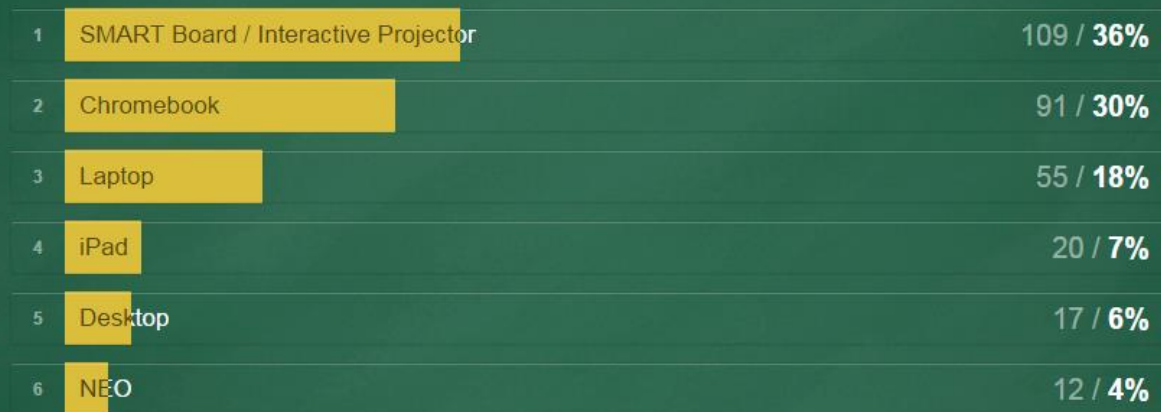
Do you learn better from using technology?

304 out of 304 people answered this question



What technology do you use in your classroom on a weekly basis?

304 out of 304 people answered this question



### What do you use technology for the most in school?

304 out of 304 people answered this question

1	District Programs (Accelerated Reader, Accelerated Math, Pearson, Reading Street...)	138 / 45%
2	Writing Papers	62 / 20%
3	Research	59 / 19%
4	Other	23 / 8%
5	Watching videos	17 / 6%
6	Playing games	5 / 2%

### What technology do you learn from the best in the classroom (media center/PC lab)?

304 out of 304 people answered this question

1	A device (Chromebook, laptop, desktop, iPad) that you are using	135 / 44%
2	A SMART board that both the teacher and students are using	129 / 42%
3	A computer/projector that a teacher is using	37 / 12%
4	Other	3 / 1%

### What technology would you like to have in your classroom or have more access to?

304 out of 304 people answered this question

1	Tablets	159 / 52%
2	Laptops	138 / 45%
3	Chromebooks	106 / 35%
4	Other	36 / 12%



## What type of technology do you have at home (all devices)?

304 out of 304 people answered this question



## As per the list above, how many technology devices are available to you at home?

304 out of 304 people answered this question





## What is the device you feel most comfortable using?

304 out of 304 people answered this question

1	CellPhone	93 / 31%
2	Laptop	78 / 26%
3	Tablet (iPad, Kindle, etc)	62 / 20%
4	Chromebook	23 / 8%
5	Desktop	17 / 6%
6	iPod	17 / 6%
7	Other	9 / 3%
8	NEO	5 / 2%

## Written Responses:

[illegible]

i think that we should be able to use are own technology for projects and other activity we have at school because some people think that some of the technology we use in class is vary hard to use.
im very smart at it
NO.
Phone
no
I finished the survey on a desktop which is technology.
No
No
Xbox 360
No
no
I Love Tablets and Internet
no
I think everyone should have a laptop.
i like technology because you can learn things to help
it is wonderful
I like to use my tablet every day.
Technology is the best thing I have experienced.
no
That I usually use technology to help me with things I want to learn.
I wish I had my own electronics
It is very cool, and can help students learn. For example, if they don't understand a lesson they can go onto the internet and it can help them understand.
i think technology helps us understand things better like for math we find some examples that make us understand it really well.
I like using chrome books they are small and are easy to use i really like technology because it is easier to get things finished like assignments, games, and more!
It makes work easier for work when using technology.It makes it fun using it also.
I think that we can learn better using technology but we should still use paper to do homework,tests, and classwork. Technology should only be used for teaching, online tests, free time in computers, and extra incentives
Something that I want to share is that having my on device that I can learn from would be nice to have.
on a laptop it is easier to type. And something that like about it is the spellcheck
I like that we are using technology because it is easier and more fun.
Something else I would like to share about technology is that I want to start working on more of the Chromebook, but we just got them today (in my class), so we will probably use them more often. If we don't I would like to use these for our writing class, our math class, our science, etc.
It is interactive and very fun for students to learn!
It is fun for the kids. It might ever be beater for they to learn.
I like technology because it helps me learn and it is easier for assignments

sure :/
Next year everyone ( maybe ) should donate money to the school and cancer
helps with chrome book quizez
I think technology is the best to help with learning.
TECHNOLOGY IS LIFE
I'm really good at technology,i love to do a lot of stuff on it. I recently made this presentation for fun.I am a pretty fast typer, and i type with two hands. The computer lab is awesome
I like to use my phone to do stuff
FUN, EASY TO LEARN WITH.
yes I would because I want to say that technology is great for learning from it makes it fun to learn too you can play games and watch videos and learn from them that is all I have to say.
There easier to use when i`m writing instead of writing on paper.
Technology is very advanced, helpful, and futuristic, but I feel like we need devices at school that wouldn't have many problems, so that we can get work done faster instead of waiting to get help from a teacher to fix your device, witch will take away some time. Thank you for understanding.
I think technology has changed human kind
Im good with technology so i want to use more.
technoloy is cool to work with
no
Using technology is easier for me than writing.
it is fun
I like to work on the laptop, better then reading papers, and articles in the text book cause it can read it to you out loud and it is easier to explain. Thank You and Bye!
It helps me research words I don't know , but a regular dictionary falls apart.
I LOVE TECHNOLOGY
I like it, a lot.
The schools tecnology is the BEST!!!!
I like playing on technology it is used for many things.
I think we should add phones to used for technology.
I don't like to to be on technology for long because, it will give me a headaches
It is usful but some times it acts up or be carful what u do on your phone labtop or tablet
I think that technology is awesome. also i think that we should get iPhones for the school to do their work on. Technology is awesome.
Technology also can be useful for many reasons.
I think technology is fun to use. When you want to look something up it would be easy to me.
I like to use it but for ask or park i dont like it
I think technology is cool because it helps you.
Things can always be better so maybe upgrades. I feel we don't need more Technology though.
yes it helps you find things that you never new about
I would like to learn how to type sentences fast
I would like to learn how to type a sentens in one second
I want to use a laptop because it really fun to play games on the computer.
I LIKE LAPTOP

technology helps me with a lot of stuff.
technology is the best
I like technology it helps me
I like the games that help you learn when you are having fun.
no
that it helps me learn
i like about technology because how it entertain you not make you feel bored
No thank you
No
I would like to share that technology is very fun to use.
Technology is fun
I wish we could bring our laptops. Also I like how fun it is
no
I would like to share my nabi
No.
When I use technology its like that is all you can think about.
I use the tv and tablet and laptop\computer alot.
Technology is fun because you reaserch on them
It is very nice to have technology and to be able to work with it.
I like using my laptop i like to do math on it.
I like writing in the morning and math because its fun and it might be hard but after you know how to use it you'll get the hang of it
I like to type on the computer because I get faster and faster.
no
Technology is a great learning tool
I like to go to in the comuter lab
I love using technology because it it easy to use and it is also easier to work on for me.
technology is awesome
no
no
no
NO
I like technology because it helps me learn better plus it is quicker. I LOVE TECHNOLOGY!!
it is a good thing for reserching
There id nothing else I would like to share about technology
no
its easy to use.
no
no
I wish to have IPads to use for technology becuae to me they are the easiest to use.
Nope...

no
we should be able to use our phones more
we should each year be assigned either a laptop or an ipad and use that device all year and we should have word because google docs is not good
Sometimes the internet doesn't work
i think it will get better and better as the years go on
its easier with a Chromebook
We have good technology in our school. We have enough for everyone to use and to do our projects.
It really helps me learn better things around the world; it makes things easier for my teacher to teach her students
technology is used in my house every second of the day
I enjoy using PowerPoint 2013 to make stunning slideshows and going on my iPad and using technology with the weather like using the radar.
technology can show you how to do something like math and English.
it is awesome
NOPE
I think it fun to use while you are working
I would like to have more tablets
nope
We should use i pads in school instead of carrying around heavy books. everything that we need should be on the i pads like books for math and science and then accelerated math and reader and also A.R books and regular books to read
I really want to use our phones in class for school work
Smart phone
To me, music helps me focus especially if the classroom is very loud at the time. It is also a good way to remember things when you study. So, if you could it would be really helpful to be able to listen to music while working.
I use technology the most at home.
I think that we should have more to-date technology like An iPad Pro and better smart boards
nothing
we need access to youtube videos
nope
For me personally I am hesitant about using technology for school work, I prefer using a pencil and paper to write and do things on, regarding school, and for general everyday life.
no
We should add more technology-based learning. Where students can use the laptops or computers to interact with the lesson as the teacher is teaching
No
I like having the chromebooks in class because they are very useful
I really like having the chromebooks because we can take notes on them and google something real quick if we need to or check your grades at anytime. They are really useful.
no
NO

no
I use them everyday.
It is awesome and easy to learn on
Technology can be great for some things but i think books are more useful in many situations.
Its very helpful in our daily lives.
Every student should get their Chromebook of there own to use instead of one per 3 students.
If we could use our phones it would be helpful
Computers and laptops are best for research in my opinion, but phones would be used for quick typing and loading.
When using technology in classrooms, I feel more comfortable learning new subjects and when being taught new lessons. If the information is in front of me the way a projector/computer/smart board is, then I process the information better. Though sometimes using books are better for learning because I always have this resource wherever I go. Also, I have more time to process all of the info.
Technology is helpful in everyday life because it helps us do may things. But sometimes books can be of better use.
Technology comes in pretty handy.



# Teacher Survey Results

April 2016



# Summary of Multiple Choice Questions:

## What grade range do you teach in?

63 out of 63 people answered this question

1	Grades 4 - 8	34 / 54%
2	Pre-K - Grade 3	32 / 51%
3	NA	0 / 0%

## What subject area do you teach?

63 out of 63 people answered this question

1	ELA	39 / 62%
2	Math	38 / 60%
3	Social Studies	31 / 49%
4	Science	29 / 46%
5	Specials (Art, Music, Gym)	10 / 16%
6	NA	4 / 6%

## Do you have Internet at home?

63 out of 63 people answered this question

1	Yes	62 / 98%
2	No	1 / 2%

### I maintain an updated website for parent information.

63 out of 63 people answered this question



### For my teacher website, I use the following platform:

63 out of 63 people answered this question



### I use technology to communicate and collaborate with families about school programs and student learning.

63 out of 63 people answered this question



► Hide detail



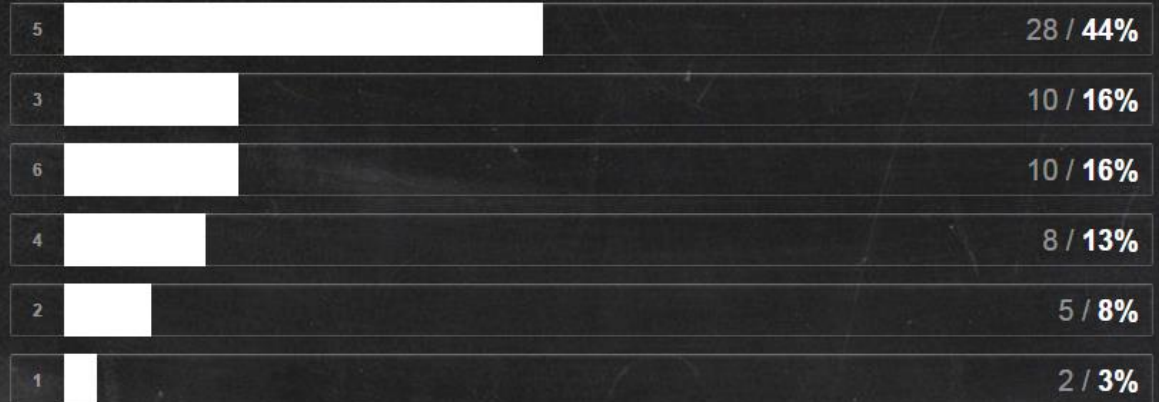
I can easily find items on the district and school website.

63 out of 63 people answered this question

Average: 4.35



► Hide detail



I feel that I am tech-savvy and can usually figure out how to use new technology and programs without much assistance.

63 out of 63 people answered this question

Average: 4.32



► Hide detail





# I would benefit from Professional development on....



### Learner-centered teaching strategies that incorporate technology, e.g., project-based or cooperative learning.

62 out of 63 people answered this question

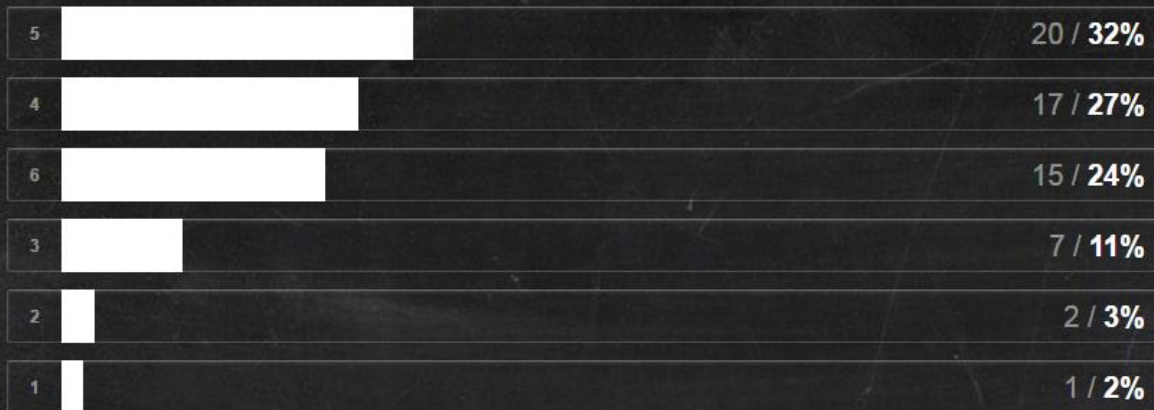
Average: 4.58



Strongly Disagree

Strongly Agree

► Hide detail



### The use of technology for differentiating instruction for students with special learning needs.

63 out of 63 people answered this question

Average: 4.78



Strongly Disagree

Strongly Agree

► Hide detail



## Ways to use technology to communicate and collaborate with other educators.

63 out of 63 people answered this question

Average: 4.17



► Hide detail



## Alignment of lesson plans to content standards and student technology standards.

63 out of 63 people answered this question

Average: 4.05



► Hide detail



## Use of research or action research projects to improve technology-enhanced classroom practices.

63 out of 63 people answered this question

Average: 3.98



► Hide detail





Use of technology to participate in professional development activities, e.g. online workshops, hands-on training in a computer lab.

63 out of 63 people answered this question

Average: 3.97



Strongly Disagree

Strongly Agree

► Hide detail





## Which programs would you like to learn more about?

63 out of 63 people answered this question

1	Google Apps for Education (Classroom, Docs, Sheets, Slides)	51 / 81%
2	Teacher Websites	21 / 33%
3	Digital Books	17 / 27%
4	Study Island	15 / 24%
5	Microsoft Office (Word, Excel, PowerPoint)	12 / 19%
6	Library Resources	9 / 14%
7	Ren Place	7 / 11%
8	OnCourse	6 / 10%
9	McRel	5 / 8%
10	Pearson SuccessNet	4 / 6%
11	Other	2 / 3%

Other Responses:

Teaching Strategies
Apps for Ipads

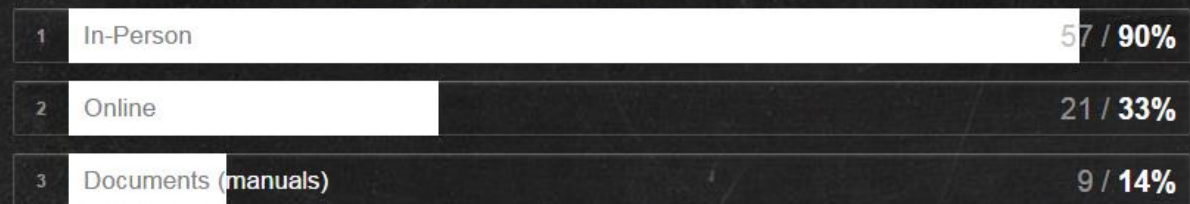
## I prefer Professional Development During:

63 out of 63 people answered this question

1	Staff meetings	52 / 83%
2	Class time - sub needed	39 / 62%
3	Summer	22 / 35%
4	After School	11 / 17%
5	Prep time	5 / 8%

## I prefer Professional Development that is:

63 out of 63 people answered this question



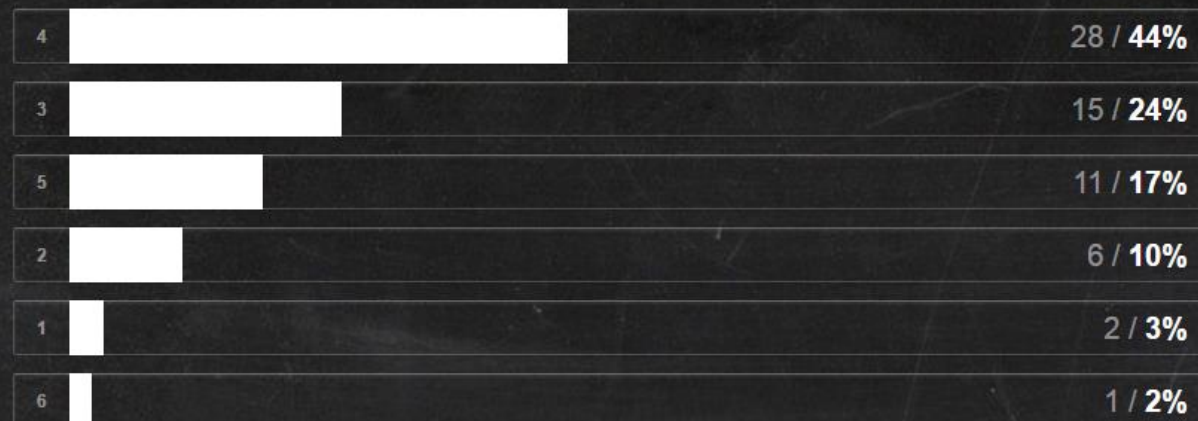
## Technology professional development is timely.

63 out of 63 people answered this question

Average: 3.68



► Hide detail



### Technology professional development is relevant.

63 out of 63 people answered this question

Average: 3.95



► Hide detail



### Technology professional development is ongoing.

63 out of 63 people answered this question

Average: 3.63



► Hide detail





I consult publications, online journals, or other resources to identify research-based practices I can use in teaching with technology.

63 out of 63 people answered this question

Average: 4.08



► Hide detail



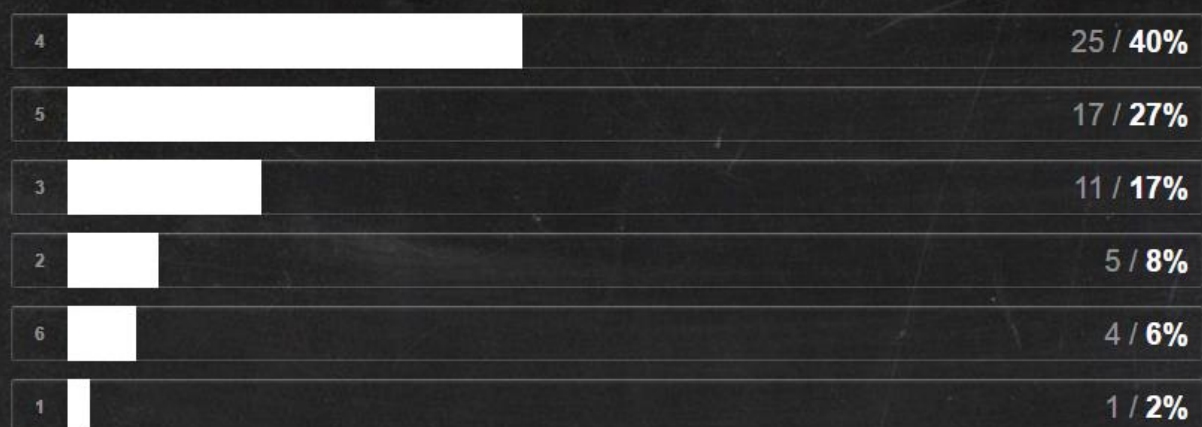
My lessons include technology-enhanced learner-centered teaching strategies, e.g., project-based learning.

63 out of 63 people answered this question

Average: 4.02



► Hide detail



### My lesson plans refer to both content standards and technology standards.

63 out of 63 people answered this question

Average: 3.30



► Hide detail



### I use technology to differentiate instruction for students with special learning needs.

63 out of 63 people answered this question

Average: 4.35



► Hide detail



I use technology to support and increase my professional productivity..

63 out of 63 people answered this question

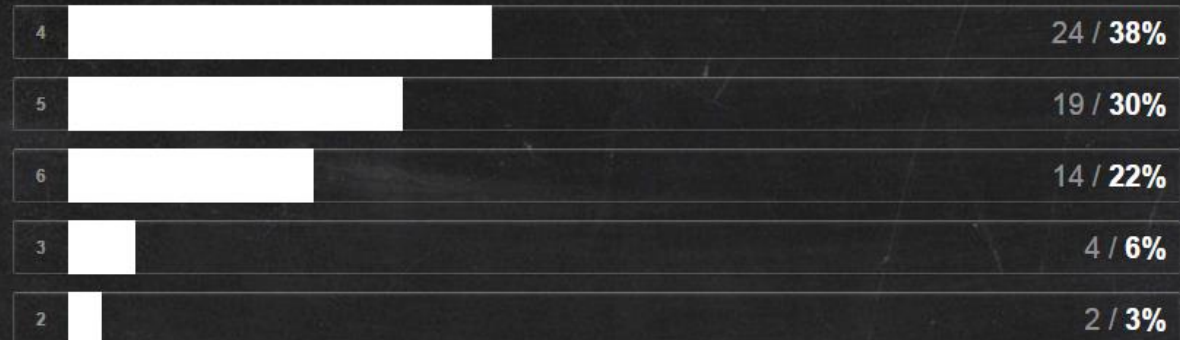
Average: 4.62



Strongly Disagree

Strongly Agree

► Hide detail



I use technology to participate in professional development activities, e.g. online workshops, hands-on training in a computer lab.

63 out of 63 people answered this question

Average: 4.19



Strongly Disagree

Strongly Agree

► Hide detail





## I use technology to communicate and collaborate with other educators.

63 out of 63 people answered this question

Average: 4.40



Strongly Disagree

Strongly Agree

► Hide detail



## I do research or action research projects to improve technology-enhanced classroom practices.

63 out of 63 people answered this question

Average: 3.63



Strongly Disagree

Strongly Agree

► Hide detail



My teaching is more student-centered and interactive when technology is integrated into instruction.

63 out of 63 people answered this question

Average: 4.44



► Hide detail



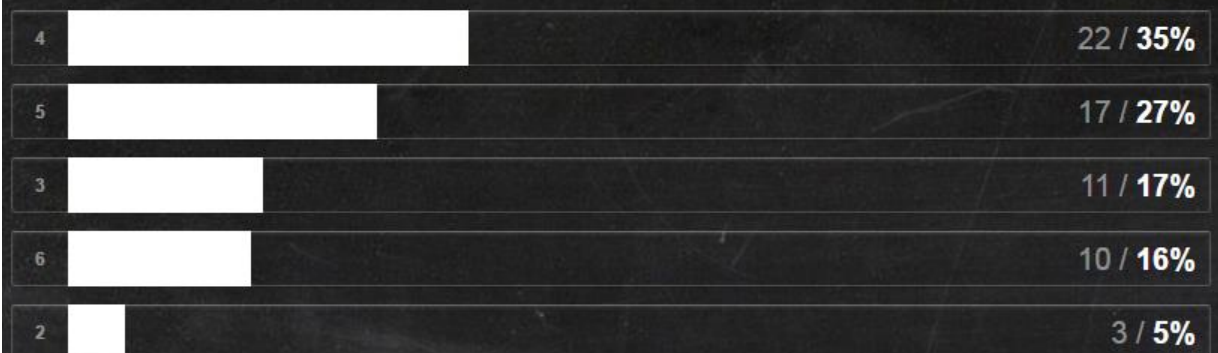
My teaching practices emphasize teacher uses of technology skills to support instruction.

63 out of 63 people answered this question

Average: 4.32



► Hide detail





My teaching practices emphasize student uses of technology as an integral part of specific teaching strategies, e.g., project-based or cooperative learning.

63 out of 63 people answered this question

Average: 4.06



► Hide detail



Students use technology to access online resources and information as a part of classroom activities.

63 out of 63 people answered this question

Average: 3.97



► Hide detail



## Students work on technology-enhanced projects that approach real-world applications of technology.

63 out of 63 people answered this question

Average: 3.51



Strongly Disagree

Strongly Agree

► Hide detail



Students use technology to support higher-order thinking, e.g., analysis, synthesis, and evaluation of ideas and information.

63 out of 63 people answered this question

Average: 3.75



Strongly Disagree

Strongly Agree

► Hide detail



Students use technology to create new ideas and representations of information.

63 out of 63 people answered this question

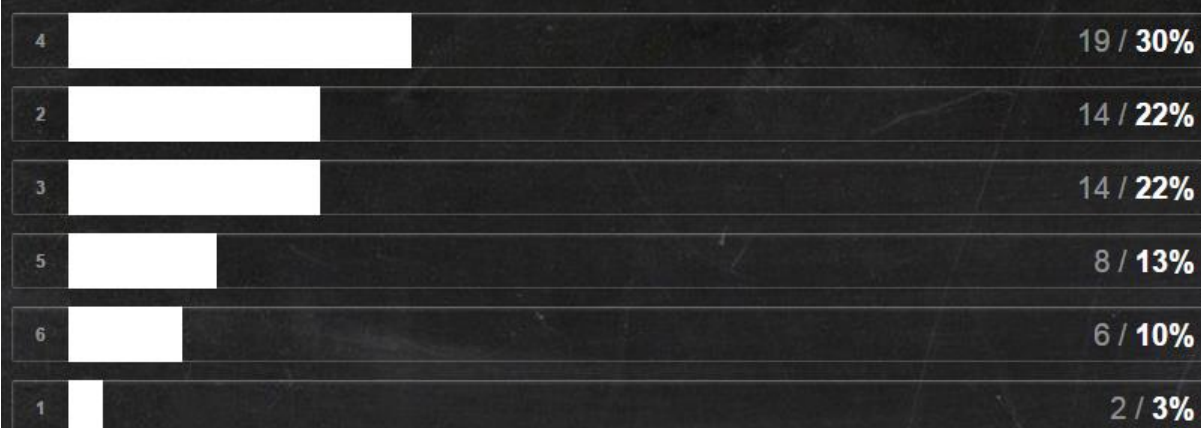
Average: 3.56



Strongly Disagree

Strongly Agree

► Hide detail





## Technology has helped my students become independent learners and self-starters.

63 out of 63 people answered this question

Average: 3.60



Strongly Disagree

Strongly Agree

► Hide detail



## Technology has helped my students work more collaboratively.

63 out of 63 people answered this question

Average: 3.48



Strongly Disagree

Strongly Agree

► Hide detail



Technology has increased my students' engagement in their learning.

63 out of 63 people answered this question

Average: 4.32



Strongly Disagree

Strongly Agree

► Hide detail



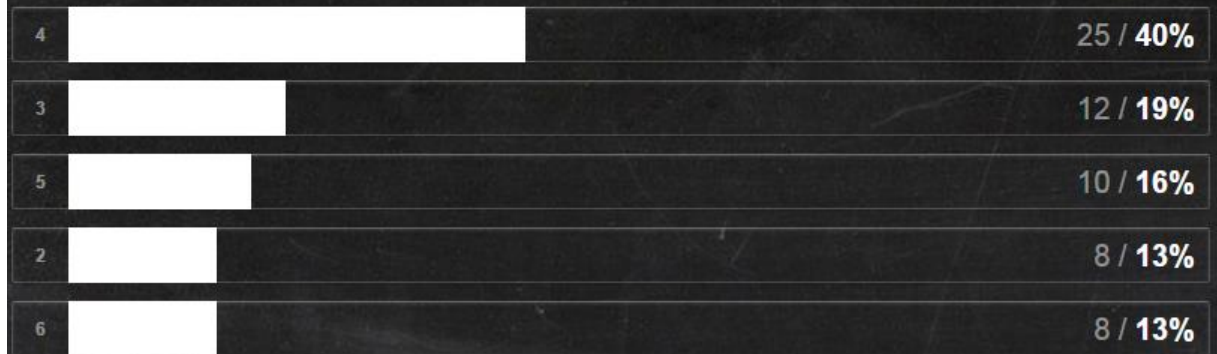
### Technology has helped my students achieve greater academic success.

63 out of 63 people answered this question

Average: 3.97



► Hide detail



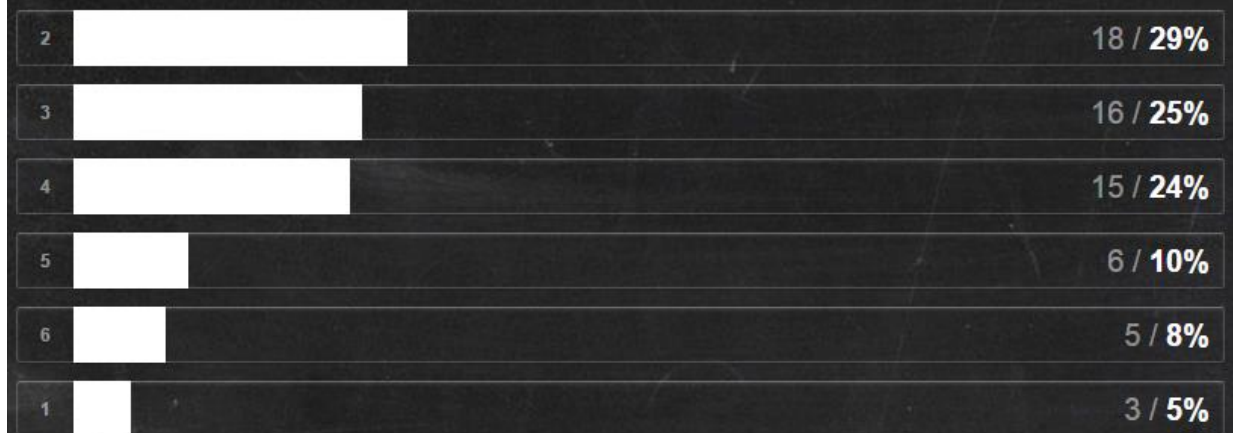
### I do research or action research projects to improve technology-enhanced classroom practices.

63 out of 63 people answered this question

Average: 3.29

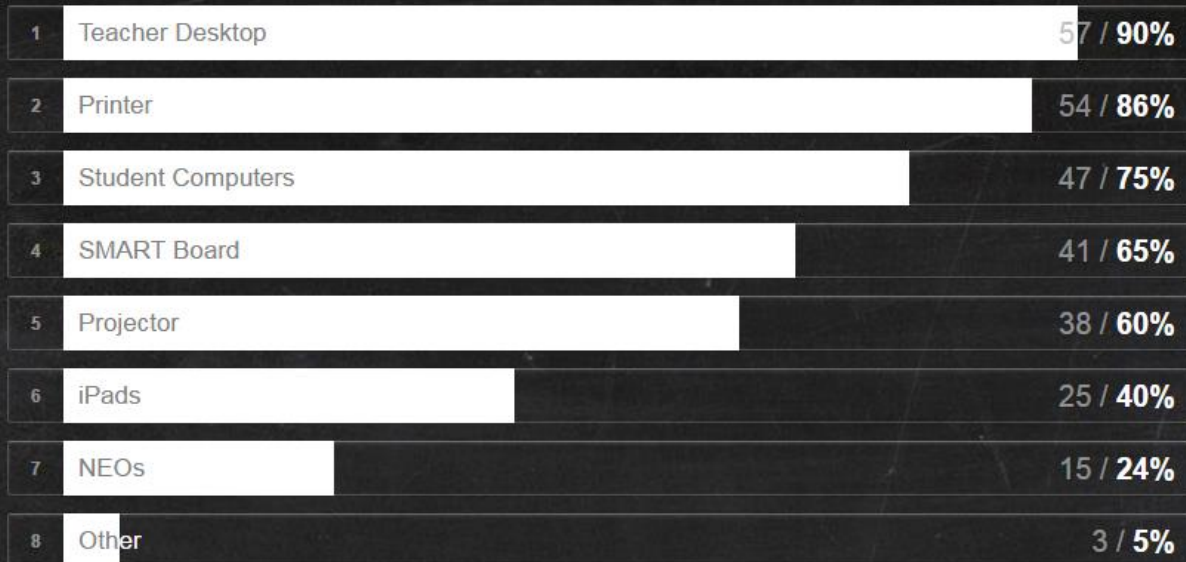


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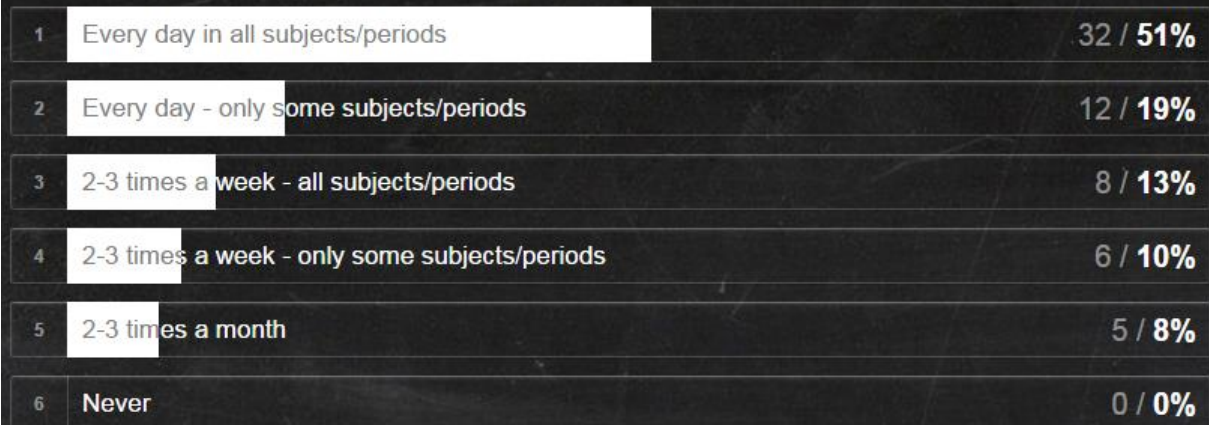
### Which types of technology do YOU use in your classroom?

63 out of 63 people answered this question



### How often do YOU use technology in the classroom for instructional purposes?

63 out of 63 people answered this question





### Which piece of technology do **YOU** use the most in your classroom instructionally?

63 out of 63 people answered this question

1	SMART Board	36 / 57%
2	Teacher Desktop	36 / 57%
3	Projector	25 / 40%
4	Student Computers	24 / 38%
5	iPads	15 / 24%
6	NEOs	5 / 8%
7	Other	0 / 0%

### Which types of technology do **YOUR STUDENTS** use in your classroom?

63 out of 63 people answered this question

1	Student Computers	48 / 76%
2	SMART Board	33 / 52%
3	Printer	20 / 32%
4	iPads	19 / 30%
5	Projector	14 / 22%
6	NEOs	13 / 21%
7	Teacher Desktop	12 / 19%
8	Other	2 / 3%



### How often do YOUR STUDENTS use technology in the classroom for instructional purposes?

63 out of 63 people answered this question

1	Every day - only some subjects/periods	20 / 32%
2	Every day in all subjects/periods	20 / 32%
3	2-3 times a week - all subjects/periods	9 / 14%
4	2-3 times a month	7 / 11%
5	2-3 times a week - only some subjects/periods	6 / 10%
6	Never	1 / 2%

### Which piece of technology do YOUR STUDENTS use the most in your classroom instructionally?

63 out of 63 people answered this question

1	Student Computers	39 / 62%
2	SMART Board	18 / 29%
3	iPads	17 / 27%
4	Teacher Desktop	8 / 13%
5	Projector	7 / 11%
6	NEOs	5 / 8%
7	Other	2 / 3%

### How often do you use the library or lab computers for student work?

63 out of 63 people answered this question

1	Never	31 / 49%
2	Once a month	20 / 32%
3	2-3 times a month	7 / 11%
4	Everyday	4 / 6%
5	At least once a week	1 / 2%

### What technology would you like to have more access to?

63 out of 63 people answered this question

1	Chromebooks	33 / 52%
2	Laptops	33 / 52%
3	iPads	32 / 51%
4	Mobile/Shared Carts of Devices	16 / 25%
5	Document Camera	15 / 24%
6	SMART Board/Panel or Interactive Projector	15 / 24%
7	Desktops	1 / 2%
8	Other	1 / 2%

# Written Responses:

How do you currently utilize the library space?
Red ears because the science computers never work properly.
Research books
to get books for students
AR books, test taking, research
I do not use it at all because we use my classroom computers for research.
Not very often. Maybe a few times this year. I have enough computers in my room.
Benchmark testing, research projects, digital books, google classroom activities
Study Island
Rare computer use and lessons with Ms. DeCaro.
I do not really use the library, but have done projects in the computer lab.
For student time on Study Island or to take benchmark exams
STAR testing
I do not currently use the library, unless students/myself are signing out books.
Use computer lab
My students and I check out books to meet the reading requirements in my class
To do research or AR testing
for testing on the google, research on the computers.
not often
I do not
I use it when I have to give a computer based test.
very little
Pearsonsuccessnet.
The students use the library to check out books and to consult with the librarians.
Research papers on various topics
I don't...
1-Disagree times month
Wasn't aware that I could
I don't
Books to read to children
PARCC practice
For research.
I take books out of the library to utilize in the classroom.
I will check out books to use in my class as part of the lesson. I also assist students in choosing the appropriate level book for A.R.
I don't
I do not.

I use the library as a resource to support my class library and to take out more AR books appropriate to my students reading level.
n/a
At the current time, my class has been unable to utilize the library space other than during specials time once a week.
N/A
I currently do not utilize the library to its fullest potential.
I have never used the library.
I use the library to help students find "good fit" books.
Just when we have Library
I use it for computer based projects
N/A
I use the library when the computer lab is unavailable.
Due to lower number of students in my class, I do not use library space for instructional purposes.
I do not

How would you envision the library supporting the curriculum?
Ar reading
What they are doing now
I would like the librarian to co-teach researching skills with me.
I have enough computers in my room.
Research projects, e-books and online stories
More computers
?
To do research projects.
Similar to technology teacher, use the media center as a way to collaborate with teacher; online books
adding resources related to instructional topics
content area focus/highlight topics/activities that change up each month; interlibrary loan utilized unprompted to acquire books to fill gaps in our inventory; support to ESL students; low level/high interest content provided; guest speakers/consultants for content areas; training for families
For research
???
projects for health
more online books
research
Research
Not sure.
materials
The library is a great resource for research and citation reinforcement. If reading a particular theme or genre, the library can also help students to find relevant materials.
To collaborate lessons with the classroom teacher
Library could support extension activities
Making sure that students know how to perform various functions and locating information
difficult question for me to answer as I'm the Guidance Counselor
Literature based projects
Would be great for students to have a way to reinforce lessons, are the touch screens?
Supporting books for classroom needs
More integration of books and technology
More online resources for children
Research
More books in more hands.
continued use of librarian's help
I would like to see more low level high interest books for students. We also need more A.R. books for lower levels 0.1-1.9.
open times for computer use; integrate technology into reading
If we switch to thematic units, library could assist in having students pull more information from books or online research.

I would like to see more open times for the students to be able to go to the library and use the computers for assignments.
Having a large range of books and other resources to supplement and support concepts being taught in class.
Research for biographies, nonfiction lessons, AR book quiz numbers
Provide more guidance with students selecting AR books.
As a lending library of teachers' Units, Centers, handmade supplemental materials
Having programs or software related to the Spanish language, such as audio books or language learning tools.
To enhance what is being taught in the classroom. Student research can be enhanced through project based learning/assignments.
To help find information.
Having an opportunity to bring classes down to the computer lab would be beneficial. It's not possible at this time because at JFK, the specialists' schedules are aligned so that the library/computer lab are in use when other specialists have classes.
Curriculum aligned books

## Suggestions:

What programs are we can we use to communicate with parents; remind....also One of the questions said about a Web based communication through on course and something else. Can someone show me what it is

More iPads for classrooms

Smart board in classroom

I would love as much professional development as possible to help increase and enhance technology in my classroom.

I would like to see a cart with technology available to sign out.

Subscriptions to websites like "Powtoon" and the Google Extension "Read Write" would be very helpful.

I would like training in Google classroom instead of having to rely on coworkers or figure it out myself.

More evenly spread technology resources (even number of laptops/chrome books per classroom)

I suggest that all tech training be followed by adequate time to use and integrate it.

We need i pads.

I feel like there is a lot of technology at school that is just sitting in the back of rooms. I wish the technology we did have was more easily able to be shared so that people who would use it more, could have it.

More differentiated training to meet the needs of teachers

grant writing, what's new out there? - not sure what's new (apps, devices, software) that would benefit instruction

I could make use of an I-Pad for math and language games and movies.

Teachers could train on google ed and become certified.

to be able to have access to test kids on computer for final exam in health

A posted sharing schedule for Chromebooks or laptops

Just continue to provide ongoing training and updated devices. We really seem to be moving in the right direction and I appreciate it so much.

We need more laptops to use in each classroom

Hanging projector from the gymnasium ceiling.

In order to accommodate more 21st century learning, I would like to see my classroom get at least 10 Chromebooks to allow for collaboration and the frequent use of technology.

I would love to learn and use google classroom with my kids, but in order to do it efficiently we need to have at least a class set of chrome books or ipads to share per grade level.

To have other teachers or professionals come into the classroom and share what they know with the children.

I need training in using google sheets and the google program that works with Excel. Also, having training on how to maximize technology in a short mini lesson of struggling learners.

We use the Neo's for AR, AM, and math facts practice. The Neo's are slowly dying out, and I only have three computers in my room. How will we use the programs we rely on in Renaissance in the near future when we don't have enough Neo's for the class to use functionally?

If textbooks or other materials that students need to read independently were on tape so that struggling readers could have access to them, it would help "level the playing field".

I think all teachers need to be taught about all the ways you can use google classroom and all the extra apps within google for educational purposes. Additionally, we should be guided in writing grants for the equipment we need but cannot be provided by our school budget.
1) Teachers could plan activities which are supported by entire teaching team, exploring a single topic through many lenses. 2) Topics are being repeated in multiple grade levels, and not going more progressively in-depth 3) Lack of authentic collaboration. It needs to be modeled, practiced and maybe some accountability.
More access to laptops and chrome books for students
Chromebooks or laptops for students.
again, difficult answer as the Counselor.
Enough resources for all students