

Technology Plan
Pendleton County School District
Butler/Falmouth, Kentucky



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www.pendleton.kyschools.us

Acknowledgments

Name	Position	Contact Info
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District Technology Staff

Michele Crowley	Chief Information Officer	859-654-6911
Todd Colvin	Network Administrator	859-654-6911
Chris Beckett	LAN Technician	859-654-6911

School Technology Resource Teachers

Teri Strong	PHS Technology Resource Trainer	859-654-3355
Megan Ramsey	SMS Technology Resource Trainer	859-472-7000
Jessica Murrell	NES Technology Resource Trainer	859-472-7341
Tina Record	SES Technology Resource Trainer	859-654-6981

Additional District Contributors

Anthony Strong	Superintendent	859-654-6911
Laura Pugh	Exec Director of Teaching & Learning	859-654-6911
Mark Hegyi	Principal	859-654-6981
Cheri Griffin	Board Member	859-654-6911
Barb Brown	Administrative Assistant	859-654-6911

Community Representatives

David Bay	Community Member	859-654-6911
April Redden	Parent	859-654-6911

Students

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Executive Summary

In order to meet the mission of the Pendleton County School District, we have outlined our goals, vision, needs, priorities and solutions we are working toward achieving in this plan over the next year. Technology is constantly evolving and changing the way we learn. We expect our students and faculty to use technology to access information, to communicate with other citizens, to collaborate with others both within the school environment and within the global environment, and to construct knowledge derived from these activities.

Student learning is at the heart of all we do in the Pendleton School District. It is our belief that student learning is improved with the use of computer technologies, including online tools and the use of collaborative, on-demand learning. This plan begins with a vision for student learning, a statement of beliefs, and a rationale for creating and continuing to build networked learning environments. It continues with Technology Learning Standards for all students and high expectations for schools. We will continue our focus on Digital Citizenship at all grade levels, privacy and security, development of the technology infrastructure and tools and access to technology. We will focus on developing technology literate teachers who will use a variety of strategies to enhance daily instruction. By infusing the daily curriculum with technology, all students should have the opportunity to develop technology skills that support learning, personal productivity, decision making, and daily life.

Professional development strategies and philosophy are described in support of the standards. Teachers are expected to become effective users of technology in order to provide a learning environment that is innovative, creative and user friendly. Each school will promote training, evidence and tracking of the use of technology literacy in the classroom of its teachers. Teachers should function as coaches, mentors, information managers, and, in general, as facilitators of knowledge. Teachers should have the knowledge and skill to integrate these technologies in a manner that will address students' specific needs and learning styles. Since the evolution of technology, there has been a paradigm shift that learning is anytime, anywhere. Networking and learning is ongoing and doesn't stop at the end of the school day. Our focus is to support this shift and help teachers use the resources they have to be 21st Century Learners along with the students. This focus on the six key elements of 21st Century Learning Skills for students and teachers will be the core of this plan and implementation of hardware and software into the schools. It will be the guide for the delivery of professional development and implementation of strategies in the classroom. We have received ERate funding to build out our wireless infrastructure and now hope to research a curriculum initiative involving a formula for a 1:1 in certain areas. To do this, we will need to research where it will be used, how it will be funded, how it will be maintained, if the program can be sustained and if there is enough support within the district and the technology department to implement such a program. We will be implementing this gradually to measure the effects on the network and current AP's. We will be upgrading the wireless in the middle and high schools, along with our core network in the 2018-1019 school year. ERate funds will be leveraged to help pay for these upgrades.

The district is currently implementing STAR, Hybridge, ILP, Lexia, Edgenuity, Reading Plus, Springboard, online testing and other networked/web resources to promote student literacy and development. Because of this strong shift in technology-based resources, all students will be required to undergo Digital Citizenship Training in grades 4, 6 and 9, as well as any new students to the district. Students in grades 6-12 will be required to obtain a Digital Driver's License before they will be permitted to use any web resources or BYOD. Office 365 has also been deployed for all students and faculty district wide.

The district website will continue to align the district initiatives and provide resources for parents, students and faculty. We will continue to upgrade our website to better comply with accessibility standards, as well as implement more mobile features. All teachers have been trained on the site to promote maximum value of the site. All communications with parents and students will be supported on the website as well as other means of communication. Office 365, Teams, MS Classroom and Skype have been successfully implemented and will continue to be utilized to maximize instruction and communication. We rolled out OneDrive for Business for added collaboration and storage, as well as many of the rich apps available in the O365 Suite. All districts migrated to their own tenant in the 17-18 school year so new features and functions are now available. We will continue to leverage these resources, provide learning opportunities and make the move as seamless as possible for all stakeholders. TRT's will continue to offer trainings to all faculty and staff as new releases and updates are made.

Students and staff work within a networked environment in which all classrooms and work areas are equipped with networked computers and telephones with voice mail. All computers are equipped with a suite of applications used by all members of the learning community. We also have several initiatives throughout the district to support student learning which include a variety of devices such as iPads, HP Streams, Amazon Fires and Lenovo Winbooks. These programs help ensure student standards are providing a framework for preparing students to be lifelong learners who make informed decisions about the role of technology in their lives. These plans, along with the BYOD will allow more access to students and provide for more student engagement. Currently, every elementary classroom has up to four computers and two labs. The high school and middle school has chosen to keep the lab settings for their students. At the high school, each department has their own lab (5 fixed and 2 mobile) and there are currently two fixed labs and 1 mobile lab at the middle school. All schools have iPads available to teachers and students. Every classroom received a wireless access point in the 15-16 school year, to provide complete saturation of coverage for mobile devices. All teacher computers were updated in 2015 but some student computers are aged and will need to be retired from the buildings. As more devices are added, maintaining what we currently have and effectively implementing new technologies with existing staff is a growing concern and will need to continuously be monitored as new initiatives are brought to our district.

All staff and students have network and email accounts so they may collaborate and seek information. This plan includes instructional learning goals, professional development goals, current technology and resources, and network and telecommunications planning to support the learning goals. To achieve these goals, it is our mission to provide a seamless mode of delivery for instruction through O365, our website and online classes, upgrade the infrastructure of the network in all entities, increase skills in communication, video, and citizenship, continue a refresh of student computers, provide interactive classrooms at all levels, and maintain a wireless mesh for all entities. This is an exciting time for Pendleton County Schools!

NES:

Northern Elementary is committed to providing technology instruction in order to produce 21st century learners in our digital society. We believe technology should be embedded into day-to-day activities, centers, and whole group instruction in order to provide an engaging and purposeful education. This year we continue to implement assessments such as STAR to allow teachers to focus on student achievement in the core areas. In addition, we will be implementing online programs such as Pearson Reading Street online series, enVisions Math, Coach Digital, Moby Max, Fast Forward and Edgenuity. Teachers will also be able to incorporate these programs during the enrichment and RBI time each day in addition to the classroom. Our teachers will integrate devices such as interactive boards, laptops, iPads, and digital response systems to make learning more interactive and engaging. Teachers will use technology such as GradeCam to assess and differentiate instruction as well as guide students to become responsible digital citizens.

Northern Elementary also plans to inform parents and the community about our technology initiatives, instruction and curriculum to create 21st century learners.

SES:

Southern Elementary is committed to providing technology instruction in order to develop 21st Century Learners in our digital society. We believe technology should be embedded into day to day activities, centers, and whole group instruction in order to provide engaging purposeful instruction. This year we continue to implement assessments such as STAR to allow teachers to focus on student achievement in the core areas. In addition, we will be implementing online programs such as Pearson Reading Street Online Reading Series, enVisions Math, MobyMax, Fast Forward and Hybridge. Teachers will also be able to incorporate these programs during the RTI time each day in addition to the classroom. Our teachers will integrate devices such as interactive boards, laptops, iPads, and digital response systems to make learning more interactive and engaging. Teachers will use technology such as Grade Cam to assess and differentiate instruction as well as guide students to become responsible digital citizens.

Southern Elementary also plans to inform parents and the community about our technology initiatives, instruction and curriculum to create 21st Century Learners through the use of Class Dojo and Facebook.

SMS:

Phillip Sharp Middle School's technology plan focuses on four main points: Teacher Use of Technology, Student Use of Technology, Focus, and Standardization. Teachers will be encouraged to use technology to present and assess instruction. Student use of technology will include presentation skills, computer application skills, and interactive assessment. To achieve these goals, Sharp Middle School will begin using various forms of technology throughout the building including classroom sets of devices for implementation. Sharp Middle School strives to improve literacy skills and to make sure all students are successful. For the "2018-2019" school year there will be a strong focus on several programs to document student growth such as STAR Testing, Reading Plus, Digital Coach, and Moby Max. These programs target key areas in which students need extra assistance so that we can be sure each individual student is targeted and given the tools necessary to succeed.

PCHS:

The technology committee of Pendleton County High School has met to identify student and staff needs in our school. We are focusing, as a building, on utilizing of existing technology in our building by providing our staff with resources to help with the implementation of technology. Committee members will meet with their perspective departments to identify how technology use will be demonstrated in their given area. The TRT will work with Department Heads to address student usage of technology as well as teacher technology usage.

Additionally, we will continue to implement strategies for student growth in technology in all academic areas. Teachers will be provided ample opportunity to be trained on technology as well as being introduced to new uses of this technology.

Planning Process and Methodology

According to the Future Ready Framework, when high quality teaching is infused with the dynamic use of technology, personalized student learning becomes possible. Pendleton School District joins with communities across the nation to embrace this educational possibility to move into the 21st Century. Our plan conveys the next steps for using technology more productively and for weaving it more thoroughly into daily learning and teaching.

The process that is followed in planning for the use of technology is based on the desire to accomplish Pendleton County School's Mission Statement. By beginning with the end in mind, the resulting technology plan is to provide direction for accomplishing desired student outcomes. The question that guided the planning process was: How can students and teachers use technology to educate, teach and learn better than they do now. The overall purpose, therefore, of the district's Instructional Technology Plan is to contribute to the success for all students in achieving significant and measurable results.

Pendleton County's District Technology Plan serves as a written commitment to what must be accomplished in order to create a success for all cultures. It should serve as a fluid document to guide, not to mandate, the course for achieving our goals. The rate at which the technologies themselves are changing necessitates an ongoing revision process to ensure that the plan is not one that is static. Planning for the skillful integration of new technologies into the classroom requires a plan that goes far beyond creating a shopping list for hardware and software. The process should be one that seeks to support each school's effort in achieving Pendleton County's Mission, as well as its own mission. The committee will continue to expand and revise this plan as a technology-rich environment is implemented for students, staff and community.

With the constant evolution of technology, means need to be realized and maintained into the environment to ensure a modern learning atmosphere for students in order to prepare them for 21st century skills. The process used in developing a plan that will guide the use of technology is based on a systems approach. Understanding that each part of the system plays a vital role in contributing to the success of the organization is important. The approach should be both inclusive and interactive for all stakeholders in the organization. The makeup of the committee that writes the technology plan is reflective of the various members of the system. Each school has a technology committee that is required to meet up to 4 times per academic year. Every school has their own goals that parallel with district goals. Each entity must decide on their technology plan and how it will be executed. After the school technology committees meet, they complete their own plan and it is embedded into the district plan. The district also meets as a committee and discusses the needs and goals of the district. The committee members discuss what is important and attainable from the available funding. Once the plan is revised/written, the committee reviews it and the Board approves it. We also evaluated the plan from last year on where we are, what we accomplished and what still needs to be completed.

The assessment and evaluation of the plan must be capable of generating information for making any needed adjustment to the action steps. This will ensure the quality and viability of the plan. The district will make a concerted effort to ensure that both quality and viability are addressed during the assessment and evaluation process. The district will use the data generated to improve the education in Pendleton County Schools. The school TRT's gather samples of technology usage from the teachers in their buildings used throughout the year. These samples are stored in a shared O365 OneDrive account. The CIO and school TRT's are responsible for revising the plan. The final plan is then sent to the District Technology Committee before Board approval. A Technology Plan is submitted annually to KDE as part of ERate on behalf of the district.

This district plan for educational technology is a dynamic blueprint for systemic change. Therefore, we have reviewed, refined, revised, and rewritten it as necessary to keep it viable. This requires that we examine it periodically to determine its continued effectiveness. The plan includes action steps that will indicate whether each of the goals is being met in the specified manner. Provisions for making necessary adjustments to the plan will ensure that the technology is available and effectively used to enhance the teaching/learning process through instruction, professional development, and community involvement.

Considering the rate at which new technologies are being developed, assessment and evaluation needs to address a host of issues relative to technology development and cost. The development of new

knowledge about the learning process suggests that we examine the goals and objectives of the plan in a manner designed to include these new understandings. It is imperative, therefore, that we consider how we learn, what structures promote learning, and what technologies are available to enhance the learning process. We can then perform a comprehensive assessment of the technology plan. We found the need to allow BYOD for students, although our refresh of the student machines was hugely successful. Currently, our network and our wireless has been able to handle the load of student devices.

One of the key district goals was to separate from the state MS O365 tenant into an individual tenant. We were a pilot for the state and will continue to train and learn more about the resources available to our district. We will maximize the potential benefits offered in the applications in O365 for both staff and students. We were also able to complete the installation and configuration of new wireless access points at Northern Elementary and Southern Elementary. We will continue to tweak these settings to make sure all network settings are working seamlessly in both of these buildings. We purchased AP's with integrated cameras and are currently looking for a way to connect all of these into our security system for school safety and monitoring. After purchasing and installing these AP's for our elementary schools, we saw the need for having the same devices in our MS and HS. We are hoping to install the AP's everywhere in the district as well as integrate a security system with analytical software that is networked for all buildings capable of managing all the cameras in the district.

NES:

Our technology team worked together to identify the major technology needs in our school. Our team will meet multiple times throughout the year reviewing the technology plan for the current and future year. Team members will help identify areas of weakness and aid in teacher trainings and student technological instruction. We will continue to provide trainings on the technology we have in our building.

SES:

Our technology team worked together to identify the major technology needs in our school. Our team will meet multiple times throughout the year reviewing the technology plan for current and future year. Team members will help identify areas of weakness, aid in teacher trainings and student technological instruction. We will continue to provide instruction on the technology we have in our building.

SMS:

Members of the technology committee were consulted for recommendations when SBDM developed the building's needs assessment. Recommendations were discussed and added to the assessment for approval pending budget restrictions. The committee includes all grade level and department leaders so that all grades and subjects are included in the consultation of Sharp's needs in terms of technology. The technology committee met three times throughout the school year, and has communicated through informal means such as faculty meetings and via email. The committee did note that the key goals we discussed such as using technology more frequently in the classroom and student use of technology dramatically increased in the "2017-18" school year. Sharp will continue to increase student use of technology to make students more college and career ready.

PCHS:

The technology committee has met to identify technology needs in our school. As a building, we will continue to focus on the utilization of existing technology by finding new and innovative ways to implement usage in our building. Committee members will meet with departments to identify how technology use will be demonstrated in their given area. The TRT will work with Department Heads to assist technology use will address student as well as teacher usage. The committee will meet three times during the school year to evaluate the plan and identify areas that need to be revised or addressed. The TRT, along with the Principal will review and revise the plan as needed.

We have successfully updated all existing student computer labs in the building to increase the student's ability to access technology. Previously, we were identifying classrooms where student workstations were needed. This goal has shifted to providing devices in these departments for student usages.

Current Technology and Resources

Pendleton County Schools were among one of the first districts in the state to have the whole district connected to the Internet. We had always been leaders when it came to technology. Money was dedicated to open a KTLN distance-learning lab, establish computer labs, and purchase networkable programs. We completed Phase 1 of the Master Plan in technology in 2000. Due to lack of funding and not having a shared vision, we went from being a leader to the end of the line. Through hard work and commitment to the shared vision, Pendleton County Schools has again quickly becoming a frontrunner in many areas of technology but we still have needs in the district. Our network is solid and extremely robust. Because of ERate funding, renovations, KETS money and local dollars, we have been able to upgrade our infrastructure to a high standard. Our current WAN backbone between buildings is a 10G fiber Point-to-Point circuit between the buildings with a 250MB connection out through KEN. We have upgraded switches throughout the network to provide for a faster, more efficient backbone that can utilize QoS (Quality of Service) to the port. Under the modernization act, we received funding for internal connections from ERate in 2016, 2017 and 2018. Unfortunately, this also hurt us because Category funding is limited and we have almost exhausted our budget. In 2011, we virtualized over 20 servers. We are using Lightspeed for filtering. We have student and faculty folders for storage on our virtualized storage network as well as O365 and OneDrive in the cloud. We switched to a new webhost in July 2012 and all teachers have web sites available for posting information. The LAN connections in each building consist of 10/100 switched Ethernet ports to each workstation on the network. The backbone between wiring closets is a 10 GB fiber connection. We also have carved out a separate VLAN for our VOIP phone system in all our entities, which allowed us to cut our number of phone lines in half. All teacher and administrator computers were replaced in the summer of 2015, and the teacher computers were moved into the building for student use. All of our buildings have security cameras and/or alarm systems. We completed a renovation on 3 out of our 4 schools in 2012 so everything is current. Through renovations and ERate, we were able to rewire all our schools to CAT6e in 2010-2011. We also added VBrick in 2011 to stream our television and video. We added a conferencing component to all of our schools with the aid of the USDA RUS grant that was awarded to the district.

In 2015-2016, we added additional drops in each of our buildings to accommodate for wireless and projectors. In order to plan for the future, we added a 15' whip on the drops so we could move the them to any corner of the room. This proved to be helpful when installing our new AP's (purchased 2017-18) with the integrated cameras for positioning. Every elementary classroom currently has an Extreme AP with an integrated camera. We are still working on a system to hook up all the cameras in the schools but the AP's are fully functional. We will be replacing all the AP's in the Middle School and the High School in the 2018-2019 school year.

A project that will span into the 2018-2019 school year includes: 1) updating the core infrastructure in all the buildings in the districts, 2) updating the AP's in the Middle School and High School to Extreme 3916ic Indoor Access Point with Integrated Video Camera's, and 3) implementing a networked security system connecting all the security cameras and AP cameras in the district for monitoring and analytics. Detailed research and time is being put into each of these projects to make sure we implement the most feasible and cost effective solution for the district.

In order for technology to be fully integrated into instruction, there must be sufficient equipment available. This includes the need for a variety of technologies to meet the learning needs of students. However, just because the hardware and software is available, there is no guarantee that student proficiency will increase. Administrators and teachers have to embrace change and seamlessly integrate technology into the curriculum and instruction delivery. We are now on track working toward this goal. These technologies will be used to improve the productivity of everyone in the educational process by allowing them to work smarter rather than harder. Our current bandwidth is adequate for our needs at this time. We have added several new initiatives in our district that utilize the network. We have implemented software both on-prem and in the cloud including STAR, Fast ForWord, Moby Max, Hybridge, Lexia, Edgenuity, and IC (to name a few) as daily resources for our staff and students.

After setting up transparent proxy, we opened BYOD for our faculty/staff, students and guests. Currently technology is available to all students in the district in some form. Every school will have at least two efficient labs of computers available for students. The teachers in the building hold classes in the labs. Every lab has LANDesk installed to monitor and manage classes in the lab. Students use technology as a tool to promote learning. Software, such as Read, Write, Gold, is located on the computers to aid

students of special populations to have better access to the curriculum. Every computer has the most current version of Microsoft Office that it can hold. The district renews the Microsoft Agreement every year so licenses are available for the most current technology. We have implemented Office 2016 along with Office 365, OneDrive and Skype for students and teachers as part of a statewide initiative. We were able to replace 264 computers through a district lease. We are replaced teacher computers over the summer of 2015 and their devices were then used for students. With so much instruction using technology, we will continue to work to replace technology through some type of device. The district is working together to find the ongoing funding for this. We currently have BYOD for students. We will continue to work toward helping teachers effectively incorporate this into daily teaching and learning. Due to the high free/reduced population in our district, we do not have a huge population of students that have their own devices to bring to school. Before any middle school or high school students “get connected”, they are required to take a Digital Citizenship class and pass their digital driver’s license. The elementary students will also take a Digital Citizenship class throughout the year. The schools are also working on their own initiatives to pilot class sets of iPads and Win10 devices, deliver classes in a blending environment of traditional and online, and use online resources.

Our TRT’s offer monthly trainings all year based on the needs of their staff. They survey their teachers to see what needs they have or they offer trainings based on new information or initiatives that have been released. The TRT’s also provide updates at faculty meetings and through PLC’s in their buildings. The CIO gives a monthly update at the Teaching and Learning Instructional meeting for all the administrators to share with their faculty, along with communications through emails and newsletters.

All technical staff attends KySTE annually and is encouraged to participate in online learning webinars. The network administrator also attends the monthly technical meetings. Both the Net Admin and the District Tech network with other district tech staff on problems and solutions that arise in the district. The CIO attends monthly regional meetings and networks with other CIO’s in the state. Collaboration with others is the key to success and personal growth!

NES:

In order to reach our district wide vision toward achieving proficiency while reducing novice, the following technology goals are what we think are necessary. There are four main areas of focus. Teaching students the skills they need to be proficient in technology and giving the tools they need in order to implement those skills into problem solving opportunities are equitable to real life situations. Our second area of focus will be to provide professional development for teachers, including MakerSpace, STAR, Lexia, Edgenuity, Moby Max, Pearson, Reading Plus, Fast Forward, Coach Digital, and GradeCam. Taking the time to dig deeper into these resources will influence teacher efficiency as well as student learning. Another area we will focus on is integrating devices such as iPads and laptops into classroom instruction. Students use these devices out of school, so implementing that during the day will engage students in their own learning. Finally, we need to provide students with appropriate technology instruction and safety through digital citizenship. Knowing students will be successful and safe digital users is most important when developing 21st century learners.

SES:

SES is very fortunate to have the current technology available to students and teachers. Each classroom has four student/teacher computer workstations, a document camera, an iPad, Smart Board and a ceiling mounted projector. A few teachers have additional classroom equipment such as iPod, laptop, and a kindle to provide assistance to teachers and lead student instruction. Fourth and Fifth grade have a grade level Surface cart that are available for checkout. Other technologies available include a Swivl, sandbars, Stream 7’s and Airliners. Software and web/based programs include: STAR, Edgenuity (Hybridge), Fastforward, Digital Coach, Moby Max and GradeCam.

SMS:

Currently at Phillip Sharp Middle School we have seven computer labs, a class set of surfaces for check-out, projectors and document cameras in every classroom, and 12 sets of classroom devices being used daily. Sharp also has a CODEC system for teleconferencing. There are seven iPads that will be used for Math and Reading Intervention. Students will be able to “Bring Their Own Device” once completing the AUP and Digital Citizenship modules. Online resources currently being used at SMS include: STAR, Coach Digital, Moby Max, Grade Cam, NearPod, Edgenuity, Kahoot, Quizizz, and Reading Plus. The

Media Specialist and Lab Manager will work together on providing the Digital Citizenship curriculum to all students. The Technology Resource Teacher will collaborate with teachers, media specialists, and Instructional Coach to make sure they have the available resources to integrate technology in their classrooms.

PCHS:

Curriculum and Instructional Integration Goals

Pendleton County Schools equips its teachers to become effective users of technology in order to provide a learning environment that is innovative, rigorous, creative and user friendly. Through an integrated approach, students will learn to effectively use technology as a tool for problem solving, creativity, communication and productivity in order to become successful members of a 21st Century society who are able to meet the changing demands of life and the workplace. By integrating technology into daily instruction, students are also better prepared to meet challenging core academic achievement standards.

NES:

Students and teachers will integrate technology into curriculum and instruction daily. Our main focus will be RTI /Enrichment Groups. The following technology will be a major part of the instruction as well as other technology resources available such as STAR, Edgenuity, Coach Digital, Smart, Fast Forward and Grade Cam. Students will also be progress monitored through STAR.

Goal 1 - Technology will assist in RTI as a source of intervention.

Strategy/ Activities	Instructional Outcome	Indicator	Timeline	Person Responsible	Funding Source
STAR/ Moby Max/ Pearson/Fast Forward	Increase student performance	STAR Scores	7/2018- 6/2019	TRT IC Teachers	District/ School
Infinite Campus	Increase student performance/ track data	STAR/KPR EP	7/2018- 6/2019	Intervention Teachers Administration	District
STAR	Increase student performance/track data		7/2018- 6/2019	Special Education	District

SES:

Goal 1- Tools of technology will be integrated into the daily curriculum to address all learners through differentiated instruction.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
iPads, Smart Boards, laptops (surface/lenovos) CODEC, Streams	Student engagement	STAR Scores/Project Weekly Checks/ Benchmark Test	7/2018- 6/2019	TRT, LMS, teachers	District
Pearson Reading Street/Envisions Math	Student engagement	STAR Scores/Project	7/2018- 6/2019	TRT, LMS, teachers	other

Goal 2- SMART Boards and other technology will be utilized on a daily basis for both large group and small group interactive activities.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers will use the SMART Board, Lenovo, surfaces, and additional technologies to enhance large group and small group instruction.	Students will be more actively engaged in lessons.	Lesson Plans, photos	2018-2019	Classroom teachers	School/District

SMS:

The goal at Phillip Sharp Middle School is to equip student with 21st Century skills. The following goals are being put in place in hopes that every student will have the opportunity to acquire these skills before they leave SMS. Our first goal in relation to STAR Testing, Reading Plus, and Moby Max is being implemented to help students perform on grade level while becoming familiar with basic computer applications. These programs will be tracked as progress is achieved throughout the year. The second goal being implemented is to encourage teachers and students to use technology frequently in the classroom for class assignments so that students are familiar with the latest technologies that are available to them.

Goal 1- Students will make improvements across all curriculum areas in reading, math and science.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
STAR Testing	Increase student success in all content areas.	Star Scores each trimester.	August 2018-May 2019	Core Content Teachers, Instructional Coach	No additional funding needed.
Reading Plus Program	Increase literacy skills and reading strategies across all contents and grade levels.	Lesson completion and progress weekly.	August 2018-May 2019	Seminar Teachers and Instructional Coach	General fund needed to cover Reading Plus cost.
MOBI MAX	Reduce the number of students receiving RTI interventions.	Number of students in RTI classes.	August 2018-May 2019	Intervention Teachers and Instructional Coach.	No additional funding needed

Goal 2- Students will receive basic technology operations and concepts training for college career readiness.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers will design opportunities for students to present learning using technology.	Increase student engagement and increase technology knowledge and usage throughout the building.	Classroom observation, lesson plans, student work samples.	August 2018- May 2019	Teachers and Instructional Coach.	No additional funding needed.
Devices will be used in social studies and science. More technology will be purchased as funds are available. Implementation of Toyota Grant IPADS in Math, Reading, and Special Education	Students will use IPADS for delivery of instruction, research, and assessment.	Classroom observation and lesson plan analysis	August 2018- May 2019	Teachers and Instructional Coach.	Funds raised by classroom teachers for initial set of IPADS , Technology Fund, and Toyota Grant

PCHS:

Goal 1- All teachers and students will have adequate access to technology for instructional purposes.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue to Update/Replace existing ceiling-mounted projectors, as needed	Increase teacher usage of technology in instruction	School Report Card/Readiness Report	On-going as needed	TRT, Lab Manager	School Funds
Expand the use of computers to increase RTI process.	Teachers will use computers to access software and Levono's to address student learning needs through the RTI processes (class and PEP).	Documentation of RTI goal (CERT)	8/18-6/19	Guidance Office/Principal	Levono's purchased through Durr Grant
Creating interactive boards for instruction	Teachers will use wireless devices to create an interactive white board	Documentation of device usage	8/18-6/19	TRT, Administrators	School funds
Updating devices in the classrooms.	Departments will continue to update departmental devices such as iPads, Surfaces, etc.	Documentation of replacing/adding mobile devices	8/18-6/19	TRT, Principal	Grants, School funds.

Curriculum and Instructional Integration Goals – Evaluation

NES:

During technology committee meetings, the committee will view progress toward the goals in this plan. Steps will be taken as needed to increase the ability to meet the goals by the end of the year. Administration will also be collecting evidence through teacher evaluation and lesson plan review. Technology team members will also be collecting evidence and saving to the Technology Committee Team through Outlook in Microsoft 365. Through the evidence we have chosen to collect, it will be evident whether sufficient progress is being made throughout the year.

Students and teachers will integrate technology into curriculum and instruction daily. Our main focus will be RTI /Enrichment Groups. The following technology will be a major part of the instruction as well as other technology resources available such as STAR, Edgenuity, Smart, Fast Forward, Coach Digital, and Grade Cam. Students will also be progress monitored through STAR.

SES:

During technology committee meetings, the committee will view progress toward the goals in this plan. Teachers will send evidence of technology use to their grade level representative on the Technology Committee to keep a log of technology use in our building. Evidence will be reviewed at each technology meeting to see what progress is being made. Steps will be taken as needed to increase the ability to meet the goals by the end of the year. Periodic formal or informal surveys will also be conducted throughout the year to gain all teacher's input on technology needs. Through the evidence we have chosen to collect, it will be evident whether sufficient progress is being made throughout the year.

SMS:

Teachers will demonstrate technology use through observation, lesson plans, student work samples, and frequent data analysis. The lab manager along with the TRT will assist teachers if technology issues should arise in the classroom and monthly trainings will be offered to train faculty on new technologies and ideas for implementation.

PCHS:

Our goal at PCHS is to produce students who are Career and/or College Ready. These students must possess those 21st Century skills that will enable them to be successful in the post-secondary world. In order to be life-long learners, students must have those technology skills that will assist them both personally and professionally. Teachers will demonstrate technology usage in the classroom, assisting students in proper use of technology professionally. Members of the technology committee and the TRT will assist teachers regarding technology issues and uses in the classroom. Additionally, school staff will continue to communicate with parents/community using the school website and various forms of communication.

Student Technology Literacy Goals

Technology skills and resources will be incorporated into every day learning and instruction. Students will be taught technology skills needed to master the common core standards for their grade level. This will help ensure that students receive the necessary skills to become technology literate by the end of the ninth grade. Students will have the opportunity to participate in the IT Academy and receive their MOS certification or other MS certifications.

Students will be encouraged in their confidence with the acquisition of new technology areas in addition to building upon previously learned concepts. Efforts will be made to involve all levels of competency within technology. Assistive technology will also be available to attempt to meet the needs of all students. Students' daily experience with interactive technology will increase their growth of their knowledge and future technology acquisitions. Classroom Smart Boards and Airliners usage will encourage students to approach new technology without fear. Assistive technology tools within the classroom will be used.

Additional assistive technology and trainings will be explored as needed. Students will be trained by staff to use available technology responsibly (Digital Citizenship) in order to improve student learning and performance as indicated in the ISTE (International Society for Technology in Education) NETS (National Education Technology Standards) Performance Indicators for Technology – Literate Students.

All students in grades 6 and 9 will complete a set of modules and pass a test to receive a Digital Driver's License before they are permitted to use the network or technology resources, including email and Internet. Students in grades 7, 8,10,11,12 will go through a refresher course every year on Digital Citizenship but will not be required to complete all the modules.

Student Technology and Literacy Skills

NES:

Goal 1- Student will receive instruction that is appropriate for their age/grade level.

Technology skills will be taken from the Kentucky Academic Standards for Technology.

Action Plan: Strategies/Activities

Strategy/ Activities	Instructional Outcome	Indicator	Timeline	Person Responsible	Funding Source
Student will receive instruction on Digital Citizenship through Common Sense Media.	Students will understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.	Teacher Observations Third through fifth grade - Digital citizenship assessment	7/2018-6/2019	TRT LMS Lab Manager Teachers Counselor	N/A
Students will receive instructions on technology operations and concepts such as keyboarding and Microsoft tools.	Students demonstrate a sound understanding/usage of technology concepts, systems, and operations.	Teacher Observations Student work	7/2018-6/2019	TRT Teachers LMS Lab Manager, IC	N/A
Teachers and students will participate in learning activities that encourage communication and collaboration.	Students will use digital media and environments to communicate and work collaboratively, including	Teacher observation Lesson plans Teacher evaluations	7/2018-6/2019	Teachers LMS Lab Manager IC TRT	N/A

	at a distance, to support individual learning and contribute to the learning of others. This will include CODEC, OneDrive and Skype.			Teachers STLP	
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SES:

Goal 1- Students will increase their knowledge of technology tools and be able to use them appropriately.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Student will receive instruction on Digital Citizenship embedded into grade level. (Common Sense Media, Nearpod & local resources)	Students will understand human, cultural, and societal issues related to technology and practice legal and Ethical behavior.	Teacher Observations,– Digital citizenship training through Nearpod	7/2018-6/2019	Library Media, lab manager, teacher	N/A
Students will receive instructions on technology operations and concepts. (keyboarding, Microsoft Applications 365 including Groups, Teams and email)	Students demonstrate a sound understanding/usage of technology concepts, systems, and operations (computers, iPads, etc.).	Teacher Observations, Student work	2018-2019	Teachers, Library Media Specialist, Lab manager, TRT	N/A

Goal 2 Students will practice good digital citizenship.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will follow the Digital Learning Continuum.	Students will develop digital skills required to be a successful student.	Lesson plans	2018-2019	Library Media Specialist Lab Manager Teachers	NA

SMS:

It is important for all students to understand the appropriate use of technology in the classroom and to have readily available the technologies they need to continue to grow as 21st Century learners. It is our hope that all students complete the learning modules required in order to receive their digital citizenship license. It is also our hopes that teachers will continue to give students the opportunity to use technology in the classroom for task completion and presentation of class assignments.

Link to the Program of Studies and the Kentucky Core Academic Standards:

<http://www.education.ky.gov/kde/instructional+resources/curriculum+documents+and+resources/program+of+studies/default.htm>

Goal 1- Students will receive digital citizenship license.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will complete learning modules & get their Digital Citizenship License	Students will achieve digital citizenship licenses	License for each student	Sept 2018	Librarian and Lab Manager	No additional funding needed, use of General funds as needed.

Goal 2- Students will become proficient users of technology in the classroom and for tasks completion.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Use of Technology in all classrooms, RTI Groups, Social Studies, Language Arts, and Science	Students will gain knowledge in keyboarding skills, Microsoft office operations, and integration of technology in instruction.	Classroom observations, lesson plans, student work samples, use of student Microsoft Accounts.	August 2018- May 2019	Seminar Teachers, Lab Manager, Instructional Coach.	No additional funding needed.
Teachers will allow students to use technology in the classroom for assignments.	Students will gain knowledge in keyboarding skills, Microsoft office operations, and integration of technology in instruction.	Classroom observations, lesson plans, student work samples, use of student Microsoft Accounts.	August 2018- May 2019	Teachers	No additional funding needed.

PCHS:

Goal 1- Students will have the opportunity to utilize technology throughout the school year as part of instruction and assessment.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will receive updated information regarding technology usage through Digital Citizenship.	Students will demonstrate understanding of skills needed for success in society.	Digital Citizenship Assessment.	9/18-12/19	Library/Media Specialist	N/A
Student will receive instructions on technology operations and concepts.	Students will demonstrate understanding of integration of technology into everyday instruction.	Teacher lesson plans, student work	8/18-6/19	Principal, Assistant Principals, LMS, and Department Chairs	N/A
Students will complete advanced technology applications in classes.	Increase student technology skills, to become "Career Ready"	Teacher Lesson Plans	8/18-6/19	Teachers, Administrative staff	N/A
Students will use iPads/Surface RT's and other devices to integrate technology into everyday learning.	Students will demonstrate use of tablets/devices in classrooms.	Teacher Lesson Plans	8/18-6/19	Teachers, Administrative Staff	N/A
Students will complete reviews using responding systems.	Students will receive immediate feedback on assessments. Teachers will be able to analyze data to focus on critical need areas.	Improvement on assessments and identification of needs in curriculum.	8/18-6/19	Administrative Staff, Department Chairs	N/A

Student Technology Literacy Goals – Evaluation

The LMS's at each school have compiled numerous resources and developed a curriculum to teach digital literacy to the students of Pendleton County. This curriculum is broken into the 9 Elements of Digital Citizenship with indicators identified in each. In the elementary schools, the media specialist will be responsible for teaching this, along with a technology skills continuum, to all students in K-5. The students in 4, 6 and 9 will be required to pass the digital driver's license assessment after digital citizenship is taught at their schools. Students who do not pass their DDL will not be permitted access to the Internet, email or BYOD. However, students will be permitted to retake the test. If they fail again, they will work with the teacher and repeat modules and retake the test. We will be using different websites and [Common Sense Media](#) as resources for middle and high school. The elementary schools have their own curriculum developed to teach digital literacy. Students in all grades not formally assessed will receive a refresher course annually on digital citizenship as well as daily reminders and modeling from teachers of being a good digital citizen. Each level will have a different implementation and evaluation.

Below is an overview of what each building will be doing to ensure literacy for all students:

NES:

Students will be evaluated by the teacher at the end of each unit or project using rubrics for self/teacher assessment. Teachers will be encouraged to develop lesson plans for their computer lab time. Observations of how well students are able to navigate in the various programs and/or log in will be noted in observations. Computer lab/RTI time and center time should be more efficient as the students learn to maneuver their way through the various programs. Students will also receive technology training during library/media special area classes. The media specialist and lab manager will provide technology instruction for all grade levels. Students will receive instructions based on the technology curriculum as well as creating digital citizens for the 21st Century Learner.

Digital Learning Target Continuum

K	Students will login to computer on their own
1	Students will log into computers and multiple programs on their own
2	Demonstrate beginning keyboarding skills
3	<p>Demonstrate basic keyboarding skills</p> <ul style="list-style-type: none"> o Locate and use letter and numbers keys with left and right hand placement o Locate and use correct finger, hand for space bar, return/enter and shift key · Save and Open files · Use Word to write, edit, save, and print simple assignments · Use PowerPoint to create, edit, and format text on a slide · Create audio and video recordings using an iPad or similar device
4	Continued: Demonstrate basic keyboarding skills
5	Continued: Demonstrate basic keyboarding skills

SES:

This plan supports the evaluation progress that enables the district to monitor progress towards the goals. Students will receive digital citizenship training, Microsoft application training, ie keyboarding, Word, PPT, Teams, Groups, etc. Students will also learn how to participate in

long distance learning through the use of the CODEC. All of these goals will support instruction, enhance 21st Century Skills. The school and district will provide the resources needed in order for students to participate in the student technology literacy. Teachers, LMS and TRT will help monitor the progress of these goals throughout the year using teacher observations, student work and assessments.

Digital Learning Target Continuum

K	Students will login to computer on their own
1	Students will log into computers and multiple programs on their own
2	Demonstrate beginning keyboarding skills
3	Demonstrate basic keyboarding skills <ul style="list-style-type: none"> o Locate and use letter and numbers keys with left and right hand placement o Locate and use correct finger, hand for space bar, return/enter and shift key · Save and Open files · Use Word to write, edit, save, and print simple assignments · Use PowerPoint to create, edit, and format text on a slide · Introduce Excel and additional Microsoft applications · Create audio and video recordings using an iPad or similar device
4	Continued: Demonstrate basic keyboarding skills
5	Continued: Demonstrate basic keyboarding skills

SMS:

Students will acquire 21st Century Skills through the Business Management seminar that will be offered at Sharp. Through this course students will complete Reading Plus Assessments, keyboarding skills, and the Microsoft Office Suite to make them more college and career ready. Students will continue to use the computer labs for research and assessment purposes. Teachers will be encouraged to use the MS Office suite of products, as well as Movie Maker and other presentation tools. The students will be presented with the digital citizenship course and teachers will monitor their progress with respect to technology use. To assist the teachers with using these products, the lab manager, TRT, and curriculum instructor will be available to provide instruction and assistance. Training and instruction will be reported to the CIO at the end of the year. Teacher lesson plans, evidence, and trimester grades will be indicators towards progress in these goals.

PCHS:

Digital Citizenship will continue in selected classes. The Library/Media Specialist will be responsible for this training with students. Students must score well enough to pass their assessment to get their Digital Citizenship certification. Documentation of student technology usage and success will be evidenced in teacher lesson plans, as well as evidence of work submitted to Department Heads. Additionally, Freshmen Language Arts teachers will have classes in the computer lab the first week of school to teach students how to use OneDrive.

Staff Training/Professional Development Goals

The importance of the “college and career” ready student requires teachers to start integrating technology at the earliest level. There are teachers who do this very well and some who are still insecure. This starts in the elementary grades. All the schools in the district have stepped up to the plate to require technology standards to be taught, covering skills and Digital Citizenship. In order to have all teachers teaching this, professional development of the technology needs to be included in every PD plan.

NES:

Goal 1 - Teachers will learn to more effectively implement the resources that we currently have to impact student learning. These resources include Turning Point Technologies Response system, Edgenuity, Moby Max, STAR, Pearson, Fast Forward, Smart resources, iPads, laptops, desktops, GradeCam, Read Write Gold, Coach Digital and videography equipment. Teachers will also learn to implement Web 2.0 tools into their instruction.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers will receive training on how to efficiently analyze and use the data from Pearson/STAR/ Hybridge/ Web 2.0 tools/Fast Forward/Moby Max	Teachers will more effectively use data collection through technology to inform instruction.	STAR scores/ formative assessments PLC	7/2018-6/2019	IC TRT Administration	N/A
Teachers will receive training on using iPads, laptops, and videography equipment effectively in classrooms.	Students will be engaged in their learning, create products, complete assessments.	Classroom observation, formative assessments	7/2018-6/2019	TRT Teachers KET	N/A
Teachers will continue to receive training on Pearson, Smart, Turning Point, Office 365, Microsoft Tools, and GradeCam.	Students will receive engaging, high interest instruction online. Students will be assessed online.	Teachers can analyze data online.	7/2018-6/2019	IC TRT Teachers District	N/A

SES:

Goal 1 Teachers will learn to more effectively implement the resources that we currently have to impact student learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers will receive training on how to efficiently analyze and use the data from Pearson/STAR/, Coach Digital, Fast Forward, Edgenuity, WEB 2.0 tools	More effective use of data collection technology to inform small group instruction	STAR scores/ formative assessments PLC	7/2018-6/2019	LMS, TRT, Administration	
Teachers will receive training on using iPads; Codec, Streams, Lenovo's, <i>Quomo</i>	Students will be engaged in their learning, create	Classroom observation, formative assessments	7/2018-6/2019	LMS, TRT, Administration	

Board , Smartboard effectively in classrooms. Teacher will receive training on student productivity, movie making and Outlook 365	products, complete assessments				
All faculty will be trained in Digital Citizenship and proper technology usage.	Faculty will understand proper usage of all digital media and be able to guide students in appropriate use.	Training PowerPoint	8/2018-6/2019	TRT, Teachers, LMS	

SMS:

The faculty at Phillip Sharp Middle School will continue to attend monthly trainings and faculty meeting in order to stay updated on the latest programs and technologies being used throughout the building. Various trainings such as, Reading Plus, Mobi Max, Coach Digital, STAR Testing, Office 365 Opportunities, Surfaces, and HP Streams will be offered as needed and throughout the school year.

Goal 1- The SMS Staff will use available technology frequently in the classroom.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Technology Trainings	Teachers and Students will use technology more frequently and gain skills to help them become more college and career ready.	Agendas, Sign-In Sheets, Observation, Lesson Plans, Groups/Teams, Student Work Samples	August 2017- May 2018	TRT, Instructional Coach, Admins, Teachers	No additional funding needed.
Planning Period/Faculty Meeting Professional Development Opportunities.	Teachers and Students will use technology more frequently and gain skills to help them become more college and career ready.	Agendas, Sign-In Sheets, Observation, Lesson Plans, Groups/Teams, Student Work Samples	August 2017- May 2018	TRT, Instructional Coach, Admins, Teachers	No additional funding needed.

Goal 2- SMS staff will receive technology updates/training through professional development and faculty meetings.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Technology Trainings	Teachers will be aware of current technology available and implement technology more frequently into daily lessons.	Agendas, Sign-In Sheets, Observation, Lesson Plans, Student Work Samples	August 2018- May 2019	TRT, Instructional Coach, Admins, Teachers	No additional funding needed.
Faculty Meetings	Teachers will be aware of current technology available and implement technology more frequently into daily lessons.	Agendas, Sign-In Sheets, Observation, Lesson Plans, Student Work Samples	August 2018- May 2019	TRT, Instructional Coach, Admins, Teachers	No additional funding needed.

PCHS:

Goal 1

Teachers will use technology to improve student performances in math and reading (RTI).

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers receive training to design opportunities to aid students in selected content areas.	Students will use technology (iPads/Surface RT's/Web-based activities) to aid in improving math/literacy skills.	Improvement on assessments in math and reading (CERT, Reading Plus, Lexia)	8/18-6/19	Classroom Teachers, Instructional Coach	Instructional money, student fees.
Incorporation of iPads/ Surface RT's in select classrooms by departments	Increase student learning through the use of tablets in the classroom	Common Assessment scores, CERT	8/18-6/19	CTE Teachers, Yearbook Staff, Core Subject Area teachers, Admin	Grants, Carl Perkins, Instructional Funds

Goal 2

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Bandwidth will be upgraded to improve high-speed usage.	Students and staff will be able to use technology (iPads/Surface RT's/Web-based activities) at faster speeds.	High speed internet	7/18-6/23	CIO	BOE funds

Staff Training/Professional Development Goals – Evaluation

Monthly trainings will be available to all faculty through the TRT's. There will also be training in PLC's throughout the year, some in small group presentations and some in after school sessions or faculty meetings. With a variety of presentations, teachers should gain a comfort level in multiple areas of technology integration during the school year. Tech staff will attend the annual technology conference and submit to present a session. In coordination with the schools, all TRT's will also attend the conference. The technical staff, TRT's and the CIO will also attend instructional meetings offered throughout the state.

NES:

Teachers are expected to include technology into their daily instruction. Lesson plans should reflect this expectation. The TRT provides monthly technology instructional PD to assure teachers the professional development to incorporate technology into their classroom most effectively and purposeful. The implementation of this technology will be addressed in formal teacher observations and informal walk through observations. Specific examples of technology that should be included but not limited to: STAR, Fast Forward, Edgenuity, Coach Digital, iPads, Grade Cam, Microsoft Tools, Pearson, Moby Max, Smart, Turning Point, and technology-based projects and other various topics.

SES:

Teachers are expected to include technology into their daily instruction. Lesson plans should reflect this expectation. The TRT provides monthly technology instructional PD to assure teachers the professional development to incorporate technology into their classroom most effectively and purposeful. The implementation of this technology will be addressed in formal teacher observations and informal walk through observations. Specific examples of technology that should be included but not limited to: STAR, Hybridge, iPad, Grade Cam, Web 2.0 Tools, Pearson, enVisions, and technology based projects and other various topics.

SMS:

In order for the staff at Sharp Middle School to take full advantage of the available resources in the building the Technology Resource Teacher (TRT) will provide monthly trainings available to staff once a month. These trainings will show teachers and staff how to use various technology available to them, new ideas for implementation, and an opportunity for them share what issues they have had with current technology. The staff will be sent a calendar invite through email to set reminders for teachers, also sign-in sheets will be kept by the TRT to document those present in the meetings. Each month Faculty Meetings will be held in which technology will be a part of the agenda to keep teachers up to date on recent changes and/or concerns with technology related issues in the building. Observation, lesson plans, computer lab schedules, use of Office 365 Accounts, and student work samples will be used to indicate that goals have been met. The technology committee will evaluate all evidence to see if individual goals have been met

PCHS:

The expectation is for all teachers to use technology into daily instruction. In order for this to be effective, teachers will be exposed to a variety of technology throughout the school year. The TRT will be responsible for accessing staff technology needs, through the use of surveys periodically. From these surveys, technology training will be scheduled to benefit the faculty and staff. Teachers will receive technology overviews at faculty meetings demonstrated by the TRT and/or Administrator, prior to training, which will be more in-depth. Ideas for all trainings will come from these surveys, and administrative recommendations. Additionally, teachers who demonstrate innovative use of technology in the classroom will be asked to share their strategies with the faculty as well. Sing-in sheets from meetings and trainings will be used to assess which teachers are actively working at improving their understanding of technology. TRT and/or administrators will also demonstrate use of technology equipment throughout the course of the school year to encourage faculty usage of technology in the classroom.

Technology Goals

NES:

NES is very fortunate to have the current technology available to students and teachers. Each classroom has several student/teacher computer workstations, class set of response system clickers, a document camera, iPads or laptops, SmartBoard and a ceiling mounted projector. A few teachers have additional classroom equipment such as class sets of laptops and iPads. Other technologies available include a Swivl, sound bars, TVs, videography equipment, books on CD, Codec and airliners.

Goal 1- All students and teachers will have adequate and convenient access to technology.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Update teacher and student computers	Teacher and student access to technology will increase.	Readiness Report/School Report Card	7/2018-6/2019	TRT Lab Manager Computer Technician	N/A
One-to-one second through fifth Grade	Student access to technology will increase and increase test scores.	Readiness Report/School Report Card/ STAR Data	7/2018-6/2019	TRT Second – Fifth Grade Teachers IC	Various Grants School
Reimage computers and place into classrooms	Student access to technology will increase.	Readiness Report/School Report Card	7/2018-6/2019	TRT Lab Manager Computer Technician	N/A
Update teacher computers and place old teacher computers into the classrooms	Student access to technology will increase.	Readiness Report/School Report Card	7/2018-6/2019	TRT Lab Manager IT	District
Purchase new projectors and interactive boards	Student access to technology will increase.	Readiness Report/School Report Card	7/2018-6/2019	TRT Principal Lab Manager Computer Technician	Various Grants School
Continue a MakerSpace in the media center	Student access to technology will increase.	Readiness Report/School Report Card/ STAR Data	7/2018-6/2019	TRT Media Specialist	Various Grants School
Update teacher printers and replace old ones	Teacher access to technology will increase.	Readiness Report/School Report Card	7/2018-6/2019	TRT Lab Manager Computer Technician	N/A

SES:**Goal 1-** All students and teachers will have adequate and convenient access to technology.**Action Plan: Strategies/Activities**

Strategy/ Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Purchase devices (Lenovos) to support 1 to 1 (or close) in intermediate grades.	Students will continue to show growth in their learning, at their level, with the use of increased technology	PO's, teacher evidence of 1 to 1 environment use	8/2018-6/2019	TRT, Administration	Conservation Board, 109 Board, School funds
Update teacher and student computers when needed	Student access to technology will increase	Readiness Report/School Report Card	7/2018-6/2019	TRT	NA
Create a MakerSpace in the media center (adding a 3D printer and coding technology)	Student access to technology will increase	Readiness Report/School Report Card	7/2018-6/2019	TRT Media Specialist	Various Grants/ School
Purchase new projectors	Student access to technology will increase	Readiness Report/School Report Card	7/2018-6/2019	TRT Principal Lab Manager Computer Technician	School

Goal 2- Use of technology systems and information will expand parent and community connections through information and resources.**Action Plan: Strategies/Activities**

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Increased use of Class Dojo and IC to support communication among student, teacher and family.	Families will be included in classroom events. Increased understanding of student progress	Samples of tools used and student work shared	8/2018-6/2019	Teachers, TRT	
Use of school Facebook page to share student accomplishments and the great things going on at our school.	Increased awareness of student work and accomplishments	Screenshots of Facebook page and work shared	8/2018-6/2019	Administration, Teachers	

SMS:

In order for students to be 21st Century Learners it is important that various technologies be available to students and equipment needs to be updated and working efficiently in order to insure success in this area. Our goal is to keep all labs in the building updated and all units functioning. We hope to continue purchasing additional devices and resources for classroom use, when funds are available.

Goal 1- As additional computers/devices become available old computers will be replaced and/or new labs will be created.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Lab Manager, TRT, and STLP students will communicate to replace computers in current labs as needed.	Students and staff will have adequate, working computers available to them when they are working in the computer labs.	Lab Schedule, Help Desk, Email, Documentation	May 2019	Lab Manager, TRT, Administration	No additional funding needed
Lab Manager and TRT will be notified through help desk for faulty computer issues.	Students and staff will have adequate, working computers available to them when they are working in the computer labs.	Lab Schedule, Help Desk, Email, Documentation	May 2019	Lab Manager, TRT, Administration	No additional funding needed.
Maintain hardware and equipment as it becomes outdated and/or broken.	Teachers are able to embed technology into daily instruction.	Inventory List	May 2019	Administrators Lab Manager TRT	Board Funds

Goal 2- Continue to use technology funds and PAC donations to buy additional technology resources.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
PAC Donations	Additional technology resources will be available for teachers and students to develop 21 st Century Technology Skills.	PAC meeting agenda and donation notice.	August 2018- May 2019	Teachers TRT Administration Accountant Lab Manager	No funding needed
Technology Fund for devices and resources	Funds will be available as new resources become available on devices.	Documentation and technology fund account.	August 2018- May 2019	Teachers TRT Administration Accountant Lab Manager	Technology funds

PHS:

Goal 1- PCHS will increase teachers and students access to updated technology for increasing student engagement and learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Purchasing of iPads for classroom use	Students will use devices to aid in core subject areas (select Math, Science, Language Arts and Social Studies classes)	Improvement on common assessments and increasing technology usage in the classroom	8/18-6/19	Math, Science, Language Arts, and Social Studies Department Chairs	Grants, if available.
Increase student access to computers for RTI	Student computers will be purchased to be used in a common area to assist students struggling in core areas (EOC)	Inventory Lists	8/18-6/19	Principal	Student Fees
Maintain hardware and equipment as needed based on repair	Teachers are able to continue to implement and embed technology into daily instruction	Inventory Lists	8/18-6/19	Principal/TRT	BOE Funds
Purchase TI-84 Smart View software for math teachers	Teachers use software for model appropriate use of technology	Students will use calculators appropriately and efficiently	8/18-6/19	Math Department Chair	Departmental funds.

Technology Goals – Evaluation

NES:

It is our goal to make more technology available to our students and teachers at NES. We plan to work as a staff to hold our annual fall festival fundraiser and a family movie night in the fall and spring which we will use some of the funds to pay the lease on the new 64 student computers placed into our building on December 2012. If additional funds were available, materials including software, devices, and headphones would be purchased to ensure student success. Within our technology goals, we hope to instill 21st Century learners and good digital citizens.

SES:

During technology committee meetings, the committee will view progress toward the goals in this plan. Steps will be taken as needed to increase the ability to meet the goals by the end of the year. Administration will also be collecting evidence through teacher evaluation (PGES) and lesson plan review. Technology team members will also be collecting evidence and saving to the Technology Committee Group/Team through Outlook. Through the evidence we have chosen to collect, it will be evident whether sufficient progress is being made throughout the year.

SMS:

It is our goal at Sharp Middle School to make each student equip with 21st Century Learning Skills. The use of technology is critical to ensure each student is college and career ready. With more resources available more students will be given the opportunity to use updated technology on a daily basis. The building administration will monitor and evaluate the progress of these goals chiefly by reviewing lesson plans, classroom observation, and reviewing accounts. Training and Professional Development will be presented regularly and will be reported on as presented. Additional training will be presented if a specific need is identified, either by administration or teacher request.

PCHS:

All of these technology goals will be evaluated by the successful purchase and implementation of the above devices.

Budget Summary

2018-2019 Budget

Fund	Amount
KETS	\$ 24 per ADA
KETS Match	\$ 24 per ADA
Local	\$ 50,000.00

Expenses	Amount	Amt w/ Erate Discount
Salaries	\$ 302,623.47	
Equipment Maintenance	\$ 33,432.28	\$ 21,687.12
Internal Connections	\$ -	
Software Maintenance	\$ 13,899.85	
Phone/Web Service	\$ 135,821.62	\$ 60,904.97
Other District Tech Expenses/ Leases	\$ 123,183.70	
Total	\$ 612,956.83	

Personnel

Name	Position	Location	Time Allocation for Technology	Description
Crowley, Michele	CIO	BOE	75%	Salary
Colvin, Todd	Net Admin	BOE	100%	Salary
Chris, Beckett	Technician	BOE	100%	Salary
Mains, Patty	Lab Manager	PHS	50%	Hourly
Hisel, Denise	Lab Manager	SMS	50%	Hourly
Gosney, Lois	Lab Manager	SES	50%	Hourly
Veirs, Debbie	Lab Manager	NES	50%	Hourly
Teri Strong	TRT	PHS	5%	Stipend
Megan Ramsey	TRT	SMS	5%	Stipend
Jessica Murrell	TRT	NES	5%	Stipend
Tina Record	TRT	SES	5%	Stipend
Josh Knox	STLP	PHS	5%	Stipend
Jessica Morris	STLP	NES	5%	Stipend
Brandi Murrell	STLP	NES	5%	Stipend
Natalie Woeste	STLP	SES	5%	Stipend
Johora Paeda	STLP	SES	5%	Stipend

Budget Summary – Narrative

Bids

To meet the needs of the K-12 public schools that receive assistance through KETS, the Kentucky Department of Education, through the Office of Education Technology, has solicited bids for contracts since 1992. The resulting contracts awarded to vendors provide the foundation for the KETS standards that all K-12 schools adhere to. From the state contract, Pendleton County Schools has chosen Dell as the major vendor for computers, Avaya for our core network equipment, Extreme Networks for our new wireless, Windstream for VOIP equipment/components, and Samsung for printers. Non-contract items are sent to a variety of vendor that have proven themselves as partners to the Pendleton County School District.

Funding Sources

Funding for education technology is made available from state (KETS Offers of Assistance) and federal sources (ERate). The district is required to match the KETS Offers of Assistance. There will be 3 offers again next year in the amounts of \$9, \$8 and \$7 for a total of \$24. The offer of assistance that comes from the state is based on ADA and is matched from the district. Through ERate, Pendleton County Schools will receive an 85% discount on data and Category 2. Telecommunications discounts have decreased each year and will be 10% in 18-19. Fiber and Category 1 equipment will be 90%.

Costs and Budget

A proposed budget has been formulated for the Pendleton County Schools. This would require more local funds from the district. The district leased a virtualized storage in 2011 and 264 computers for students in 2012. Leasing provided us with an avenue to purchase the technology needed in the district by allowing us to spread the payments out over multiple years. The final lease payment for the computers was due in October of 2016.

Other funding comes from Universal Service Fund, KETS, local funds and school support. Schools have also been purchasing technologies for their facility since the funding has not been there from the district for new initiatives. All basic operations are paid for from local and KETS funding. All telco comes from local and ERate funding but will be non-existent beginning in 2019-2020. To deal with these issues, constant negotiations are made and price shopping and comparisons are done on all purchases to ensure the best price is found.

Contracts and Leases

The copier lease expired in November of 2016 and a new lease was given to DME (Donnellon McCarthy Enterprises). A total of over \$127,000 will be saved from the previous copier contract over the next 5 years compared to the last one due to negotiating a cheaper lease and click rate. The current plan is to get all postage machines in the district on the same payment timetable. All except for one building lease (PHS) will be due in 2018. At this time, the district will look into other options and compare each avenue available. At the end of the student computer lease in October 2016, the schools purchased the computers for \$1 each. Both the phone and fiber contracts were in effect until July 2018 and were rebid and replaced in this cycle.

Budget Planning

In 2017-18, planning an upgrade to the network infrastructure will need to be implemented, along with upgrading the wireless at the elementary schools. Erate money will need to be leveraged through Category 2 funds to help offset the cost of this upgrade. The NAS and SAN will also need to be considered during this time. Research will also be started to look into a 1:1 initiative in the district if there is a possibility to leverage funds for additional personnel, training and devices. Although all these projects will not be completed, information will be gathered and pricing obtained for each of these projects. While researching information on the NAS/SAN project, pricing will also be sought for an LMS and MDM based on the number of devices being purchased by the schools.

Equipment Maintenance

Qty	Product or Service- Erate Eligible	Unit Cost	Non-Recurring	District Cost	Part Number	Ineligible
	ERS					
1	Direct Next Business Day Parts, Tech Support & Software ERS 8610 Core Switch	\$ 5,502.31	\$ 5,502.31	\$ 2,453.16	GF5300187	\$ 1,690.87
	WLAN 8100					
2	Direct Next Business Day Parts Only WLAN 8180 Wirless Controller	\$ 1,059.55	\$ 2,119.10	\$ 494.46	GF5300DZ6	\$ 353.18
	Identity Engines for Network Access Control & BYOD					
1	IDE SMALL	\$ 2,205.19	\$ 2,205.19	\$ 441.04	GU5300AXK	
1	Direct IDE Access Portal SMALL. Tech support & software release subscription	\$ 1,912.34	\$ 1,912.34	\$ 382.47	GU5300EN1	
	Configuration & Orchestration Manager					
1	Direct COM Base 50 devices tech support & software release subscription	\$ 735.06	\$ 735.06	\$ 735.06	GU5300EI5	\$ 735.06
1	Direct BCM Base 100 devices tech support & software release subscription	\$ 381.88	\$ 381.88	\$ 381.88	GU5300EJH	\$ 381.88
	VSP 7200					
2	VSP 7254XSQ Software & Tech Support	\$ 2,069.81	\$ 4,139.61	\$ 827.92	GE5300XSQ	
	WLAN 9100					
1	9100 WOS, BASE SOFTWARE WITH 10 AP LICENSES	\$ 443.69	\$ 443.69	\$ 88.74	GU5300ESD	
1	WOS LICENSE - SUPPORT FOR 50 WLAN 9100 APs	\$ 512.12	\$ 512.12	\$ 102.42	GU5300ESF	
2	WOS LICENSE - SUPPORT FOR 100 WLAN 9100 APs	\$ 693.12	\$ 1,386.25	\$ 277.25	GU5300ESG	
Total			\$ 19,337.56	\$ 6,184.40		

Qty	Product or Service- Server Maintenance Pomeroy (Coverage M-F,8-5, NBD)	Unit Cost	Serial #	District Cost
1	Dell Poweredge 2950	\$ 128.00	3CPRG1	\$ 128.00
1	Dell Poweredge R710 CTO Chassis	\$ 224.00	1BGGSL1	\$ 224.00
1	Dell Poweredge 2950	\$ 128.00	31BL4K1	\$ 128.00
1	Dell Poweredge R610	\$ 224.00	9ZF3GQ1	\$ 224.00
1	Dell Poweredge 1800	\$ 128.00	G9V3P81	\$ 128.00
1	Dell Poweredge R710 CTO Chassis	\$ 224.00	86SJCP1	\$ 224.00
1	Dell Poweredge 2950	\$ 128.00	3FBGGD1	\$ 128.00
1	Dell Poweredge R610	\$ 224.00	4PZ4GQ1	\$ 224.00
Total				\$ 1,408.00

Windstream Support Term: 12months	\$ 11,173.92
Manufacturer's Support Term: 12months	
Total Contract Value: \$14,094.72 includes first invoice for manufacturer's support	\$ 2,920.80
Pricing valid sixty (60 days) from June 23, 2017	
Windstream Support and Manufacturer Support	\$ 14,094.72

Total Maintenance	Total Cost	After ERate
	\$ 33,432.28	\$ 21,687.12

Telecommunications

Telecommunications	Monthly	Annual Total	2017-2018 Erate Discount	Annual Amt Paid
Local Phone	\$ 2,501.78	\$ 30,021.36	20%	\$ 24,017.09
Long Distance	\$ 108.00	\$ 1,296.00	20%	\$ 1,036.80
Fiber	\$ 5,150.00	\$ 61,800.00	80%	\$ 12,360.00
Cellular- ATT	\$ 1,470.00	\$ 17,640.00	20%	\$ 14,112.00
MiFi- Verizon	\$ 240.06	\$ 2,880.72	0%	\$ 2,880.72
School Messenger	\$ -	\$ 5,000.00	0%	\$ 5,000.00
Web Hosting	\$ -	\$ 3,600.00	0%	\$ 3,600.00
Total Telecommunications		\$ 122,238.08		\$ 63,006.61

Proposed for 2018-2019

Telecommunications	Monthly	Annual Total	2018-2019 Erate Discount	Annual Amt Paid
Local Phone	\$ 2,501.78	\$ 30,021.36	0%	\$ 30,021.36
Long Distance	\$ 108.00	\$ 1,296.00	0%	\$ 1,296.00
Fiber	\$ 5,150.00	\$ 61,800.00	80%	\$ 12,360.00
Cellular- ATT	\$ 1,470.00	\$ 17,640.00	0%	\$ 17,640.00
MiFi- Verizon	\$ 240.06	\$ 2,880.72	0%	\$ 2,880.72
School Messenger	\$ -	\$ 5,000.00	0%	\$ 5,000.00
Web Hosting	\$ -	\$ 3,600.00	0%	\$ 3,600.00
Total Telecommunications		\$ 122,238.08		\$ 72,798.08

Annual Software Maintenance

Qty	Location	Dept	Company	Software	Annual Unit Cost	Total Annual Cost
1	District	Finance	Tyler	Munis	\$ 8,789.06	\$ 8,789.06
1	District	DSS	Infinite Campus	Infinite Campus	\$ 14,986.25	\$ 14,986.25
1	District	Food Service	Infinite Campus	Infinite Campus Point of Service	\$ 5,800.00	\$ 5,800.00
1	District	Food Service	Heartland Payment Service	Nutra Kids Planning Menu Software	\$ 231.00	\$ 231.00
243	District	Tech	SHI	Microsoft Licenses	\$ 53.00	\$ 12,879.00
1	District	Instructional		STAR	\$ 20,700.00	\$ 20,700.00
1	District	Instructional	Academic Edge	Lexia/ Reading Plus	\$ 33,500.00	\$ 33,500.00
1	District	Spec Ed	Text Help Systems, Inc	Read Write Gold	\$ 3,000.00	\$ 3,000.00
1	District	DSS, HR	Safe Schools	Scenario Learning	\$ 3,150.00	\$ 3,150.00
1	District	HR	Netchemia, LLC	Talent Ed	\$ 1,102.50	\$ 1,102.50
1	District	HR	Aesop	Aesop	\$ 6,942.00	\$ 6,942.00
1	District	DSS	Cummins Inc.	Insite	\$ 650.00	\$ 650.00
1	District	Tech	Apple	App Deployment Program	\$ 299.00	\$ 299.00
1	District	Tech	Google	App Deployment Program	\$ 25.00	\$ 25.00
1	District	Tech	Microsoft	App Deployment Program	\$ 99.00	\$ 99.00
1	HS	HS	ePrep	CERT	\$ 7,200.00	\$ 7,200.00
1	HS, MS	HS	Edgenuity	Edgenuity	\$ 15,000.00	\$ 15,000.00
1	MS	MS	Mobymax, LLC	Mobymax	\$ 599.00	\$ 599.00
4	NE, SE, MS, HS	Library Media	Follett	Destiny	\$ 700.00	\$ 2,800.00
1	SE, NE	Instructional	Compass Learning, Inc	Compass HYbridge	\$ 10,300.00	\$ 10,300.00
1	SE, NE	Spec Ed	Pearson	AIMSWeb	\$ 3,000.00	\$ 3,000.00
1	SE, NE, MS	Instructional	Proven Learning, LLC	Gradecam	\$ 3,522.50	\$ 3,522.50
1		Preschool	Riverside Publishing	Preschool BDI-II Data Manager	\$ 84.95	\$ 84.95
120		Preschool	Teaching Strategies Gold	Teaching Strategies Gold	\$ 14.62	\$ 1,754.40
1		Spec Ed	Pearson	WIATT -III	\$ 35.00	\$ 35.00
2		Tech	PDQ License	PDQ	\$ 450.00	\$ 900.00
1	NE, SE, MS	Instructional	Triumph Learning LLC	Digital Math Coach	\$ 11,994.00	\$ 11,994.00
1	NE, SE, MS, HS	Safety	REACHing Software LLC	REACH evaluation	\$ 2,000.00	\$ 2,000.00
1	MS	Instructional	KAGAN	Instant Engage Kagan Team Bldg	\$ 150.00	\$ 150.00
1	SE	SE		Mountain Math	\$ 300.00	\$ 300.00
Total						\$ 171,492.66

**ATTACHMENTS/APPENDICES
SCHOOL TECHNOLOGY COMMITTEES**

Northern Elementary	
Darell Pugh	Principal
Tina Record	Media Specialist
Jessica Morris	5 th Grade Teacher/STLP
Brandi Darnell	3 rd Grade Teacher/STLP
Jessica Murrell	TRT/4 th Grade Teacher
Kristen Humphreys	4 th Grade Teacher
Sarah Fultz	1 st Grade Teacher
Jennifer Redden	2 nd Grade Teacher
Laura Caudill	Kindergarten Teacher
Karen Connelly	Computer Lab Manager
Jill Cahill	Special Education

Southern Elementary	
Krista Koehler	5 th Grade Teacher
Madeline Hemmerle	1 st Grade Teacher
Lynn Murphy	2 nd Grade Teacher
Jennifer Gosney	3 rd Grade Teacher
Kelly Lange	4 th Grade
Dana Childers	Kindergarten Teacher
Shannon Moore	Special Education Teacher
Lois Gosney	Computer Lab Manager
Tina Record	Library Media Specialist/TRT
Mark Heygi	Principal

Sharp Middle School	
David Sledd	Principal
Carrie Wade	Vice Principal
Cindy Fooks	School Counselor
Megan Ramsey	TRT/8 th Grade Teacher
Amanda Ishmael	7 th Grade Teacher
Christina Gregg	Science Teacher
Lauren Elliott	Art Teacher/Enrichment
Cathy Mann	Social Studies Teacher
Denise Hisel	Computer Lab Manager
Pat Brownfield	Special Education
Eileen Baker	Language Arts Teacher

Pendleton County High School	
Teri Strong	TRT, Science Teacher
Matt Shafer	Principal
Lisa Manor	Assistant Principal
Sharon Valentine	Language Arts Teacher
Jennifer Hoover	Business Teacher
Rachel Perraut	Social Studies Teacher
Marsha Yelton	Math Teacher
Debbie Jeans	Art Teacher
Carolyn Reid	Library Media Specialist
Patty Mains	Computer Lab Manager
Craig Smith	Assistant Principal