

Technology Plan
Paris Independent School District
310 West 7th Street
Paris, Kentucky 40361



<http://www.paris.kyschools.us>

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Acknowledgments

District Technology Staff

Margaret Spickler, CIO/Network Support
Connie Appelman, DTIS/Desktop Technician

School Library Media Specialist

Jennifer Allen LMS

Additional District Contributors

Gary Wiseman, Superintendent
Patrice Thompson, Chief Academic Officer
Amanda Evans, Special Education Coordinator
Jami Dailey, Middle and High School Principal
Bertha Johnson, Middle and High School
Assistant Principal
Rachelle Schjoll, Elementary Principal

Board Members

Sharon Fields, Board Member
Ricky Johnson, Board Member
Collier Mathes, Board Member
Bruce McDonald, Board Member
Janice Shepherd, Board Member

Clerical Support

April Gross, Food Service Director
Martha Moore, Treasurer

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Executive Summary

The ultimate goal of this component of the Paris Independent Comprehensive District Improvement Plan is to formalize our intentions to continue to take every advantage of modern technological equipment by providing technological experiences which support the present and continuing success of our students and staff members.

It is our intention to provide our students and staff with the technology tools and knowledge to create lifelong learners. It is our goal to assure that all of our students will be college and career ready when they graduate from our schools.

The focuses of our technology plan are to deploy useful and relevant tools for learning, keep them current and functioning properly, keep teachers and students informed about the most beneficial uses of these tools, and to maintain good communication among all interested parties by leveraging both online and verbal communication tools.

In 2018 our district will complete payments on a five year loan which upgraded our network backbone and provided fast wireless access throughout our district. We have also recently updated our servers to a virtual solution, moved to virtualized workstation solution in our elementary lab, purchased two new intelligent classrooms, and completed a one to one Chromebook initiative for our high school students.

In the coming year we will be focusing on updating aging end user devices and moving our one to one initiative into our middle school.

We continue to work to leverage the free Office 365 resources provided to all staff and students by the Kentucky Department of Education and will also continue to teach and take full advantage of Google Apps for Education which includes free productivity software, the Google Classroom Learning Management System, and unlimited online storage with Google Drive. We will continue using quality educational software to enhance student success and monitor student achievement in our district.

Our district will continue our present practice of teaching technology literacy at all educational levels and hopes to expand our use of the Digital Driver's License program and Fusion Technology Initiative to assure that our students learn basic and advanced technology skills and are technology literate.

Our staff members will continue to receive support and training on how to best utilize technology tools for innovative and effective teaching and learning. To this end our district will continue to maintain a District Technology Integration Specialist (DTIS), provide access to online teaching and learning resources including educational communities such as the Continuous Instructional Improvement Technology System (CIITS), and increase our use of teacher led training to assist us in providing professional development opportunities via multiple delivery methods.

We will continue to improve communication between the district, parents and the larger community with regularly scheduled open house meetings, parent teacher conferences, personal telephone communications, an automated calling system, by providing articles to the local newspapers and by maintaining Facebook pages and a district website.

Planning Process and Methodology

The technology planning process for this document begins with the creation of a draft based upon last year's plan and discussion of future goals with the academic leadership in the district. The first draft of the document is then approved by the Board of Education. After the draft is approved constituents are asked to review the document and offer further suggestions for changes or to further address specific topics in which they specialize. After these additions the finalized document is again presented to the Paris Independent Board Of Education. After the updated plan is approved by the Board it is next submitted to both the KETS Regional Engineer for review and the Kentucky Department of Education for approval.

This plan is revisited and updated every year. It is also reviewed at the beginning of each school year, whenever budgets are edited and re-approved, whenever educationally relevant legislation is approved and whenever goals are met or must be changed or removed. The Chief Information Officer (CIO) is primarily responsible for reviewing and revising this document as constituents recommend, district leadership directs or conditions merit. All such changes must be approved by our Board of Education. The dates on which updates are made to our technology plan are included on the cover of the document.

Due to budget cuts for all K-12 programs in Kentucky at both the state and federal levels it has been very difficult to meet some of the technology goals set out in our previous technology plan.

We have maintained our network backbone (LAN) and continue to provide effective wireless coverage (WLAN) throughout our district. All devices using our network pass through the state provided Proxy service regardless of settings. This has allowed us to open up our network for BYOD to both students and guests.

We were able to purchase two new 21st Century Classrooms this year. One of these was partially funded by a Discover Brighter Futures Grant received by our Family and Consumer Sciences department. With that assistance we were able to use KETS funds to cover installation costs in our Consumer Sciences Classroom. We also purchased a 21st Century Classroom via KETS Funds for one of our Middle School math classrooms. We would like to have more 21st Century Classrooms, but must spend our funds carefully. We have tried to use Smart TVs in three classrooms instead of full 21st Century projected classroom options and Smart Boards. The TVs alone are less expensive and easier to maintain, but do not offer the same tactile opportunities as an interactive whiteboard, large screen size, or high quality audio throughout the entire classroom.

The cost of maintaining our present 21st Century Classrooms is somewhat daunting due to bulb replacement, projector replacement, wiring replacement and other repairs to intelligent classroom components. Maintenance on these classrooms has become increasingly expensive and time consuming as our intelligent classroom hardware and wiring increases in age. We have been unable to purchase any new student response systems in the past year and are researching free options that will offer us comparable results.

We have managed to continue to provide both online and verbal communication options district wide. We have provided plentiful and good quality professional development for our teachers. We have also made policy changes and implemented technology curriculum changes to better prepare our students to be safe and informed Digital Citizens. Our aging phone system continues to be an issue; however we are hoping to get assistance from an energy conservation grant to replace this older system with a VOIP option in the near future.

Although future funding for Kentucky schools is expected to decline even more drastically in the coming years the Paris Independent School District will continue to provide the best educational opportunities we can for our students, staff and community.

Current Technology and Resources

The Kentucky Department of Education (KDE) provides free WWW access to all public school districts in the state of Kentucky via the Kentucky Educational Network (KEN). We are very fortunate that this service continues to be available and that our network speed increased dramatically in December of 2013 and again in December of 2015. This service provides an invaluable opportunity for our staff and students. However, we are continually concerned that reductions in educational funding in our state will result in losing this access or the inability of KDE to maintain the equipment vital for this service.

The Paris Independent School District maintains a Local Area Network (LAN) that connects our schools and offices to KEN. The district data network is a Cat 5 based system and includes hardwired network/WWW services to every office and classroom in our district.

At present staff, students, and guests are provided with free wireless network access via our "Guest Network" which requires re-registration every 24 hours and is filtered and traceable as needed. Long term registered access is also available to all staff and students who sign and return the appropriate forms.

Recent network upgrades have increased our switching speed and allowed us to have saturated and monitored high speed wireless coverage, and the new Lightspeed proxy option provided for our district by KDE allows for easily managed fast and transparent Proxy services for our district.

Our district voice/telephone system provides telephone access to each office and classroom including access to outside lines in case of emergencies or to contact parents and other constituents. Administrators and Administrative offices also have voice mail service and each main office has a fax machine. Although the system is fully functional it is an older system which we would like to upgrade to a "Voice Over IP" solution. Unfortunately e-rate funds are no longer available for this sort of upgrade. We are seeking an energy conservation grant which may be able to assist us in the replacement of our aging phone system.

We maintain many 21st Century and SMART classrooms throughout our district as well as a virtual computing lab at our elementary, one regular lab at our high school, and one regular lab at our middle school. The shared high/middle school library also contains many desktop computers for student use. Classrooms contain at least one internet connected desktop or laptop for teacher use and often extra computers for student use. Unfortunately many of our workstations are nearing end of life and finding the funding to replace them has been difficult. Our BYOD initiative has alleviated some of this need. We are presently investigating the possibility of replacing the middle school lab workstations with Chromeboxes, N-Computing or a similar solution. Our high school is presently piloting a one to one student to Chromebook initiative which allows our high school students to take these devices home. A list of available free Wi-fi in our area was included with the orientation for this initiative. We hope to expand the one to one Chromebook initiative to our middle school students in the 2015-2016 School Year

We have 229 district owned iPads available for student use in our district. Each of these has filtered and monitored WWW access via our WLAN. Of those 99 are in use by students at the elementary school and the other 130 are generally contained in mobile carts primarily used by our middle school students. These devices do not go home with students.

Each member of our teaching staff has either an iPad or an iPad mini for use in their classroom(s) and most of our administrators are using iPads as well. Middle and high school teachers also have Chromebooks and we plan to purchase Chromebooks for our elementary teachers in the coming year. District owned iPods are used in some middle and elementary school classrooms and are also used by students after hours. District owned digital cameras, and video cameras are also commonly used for school projects.

We maintain many types of support and educational software either in the form of cloud based services or on local servers. Software is used not only to teach students but also for administrative purposes, library and lunchroom management and student evaluation.

District technology staff members attend the spring and fall CKATC technology conferences each year as well as professional meetings and other technology training as needs arise.

Curriculum and Instructional Integration Goals

Our Response to Intervention (RTI) program requires that we provide tools to allow for Differentiating Instruction which will help our students succeed academically and includes the use of online resources to assist staff in effective instructional integration.

Goal 1

Provide educational technology hardware and software resources for district classrooms and supply teachers with outstanding examples of instructional integration on which to model their lessons.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue the use of 21 st Century Classroom hardware and software in our schools including SMART/21 st Century classroom designs, distance learning opportunities & modern productivity software such as Microsoft Office 365, Google Docs & Google Drive	Teachers will address differing learning styles, vary content delivery methods & increase student participation in the learning process. Student response systems will allow teachers to adjust lessons to assure student content comprehension	Use of these resources will be included in lesson plans & teacher observation records	July 1, 2016 – June 30, 2017	Chief Academic Officer, Director of Pupil Personnel (DPP), District Technology Integration Specialist (DTIS), Principals, Teachers	See Technology Goal 4, Item 2
Include the use of Chromebooks, iPads, iPods, Personally-Owned Devices (POD),	Students will learn 21 st Century Skills while mastering content & creating projects that	Lesson Plans & teacher observation records demonstrate the inclusion of	July 1, 2016 – June 30, 2017	Chief Academic Officer, DPP, DTIS, Principals, Teachers	See Technology Goal 4, Item 3

Digital Cameras, Digital Projectors, AV Equipment & associated software for student projects	improve higher order thinking skills	Multimedia Equipment & associated software for student educational projects			
Encourage staff to use CIITS, KATE, TICK, KETS Encyclomedia (Discovery Education/PBS Learning Media/KET ED on Demand) & other online teaching communities to help them get the most efficient use out of available technology equipment	Effective integration of technology into our classrooms by staff members will improve student interest in lessons, improve student participation in lessons & improve student academic achievement. It will also provide students with excellent models to emulate when using 21 st Century Skills now & in their future careers	Use of CIITS & other online educational technology instructional resources will be seen in CIITS usage logs & included in lesson plans & teacher observation records	July 1, 2016 – June 30, 2017	Chief Academic Officer, DPP, DTIS, Principals, Teachers	See Professional Development Goal 2, Item 5

Goal 2

Leverage online student evaluation software to identify student academic needs, respond to these needs with differentiating instruction opportunities and re-evaluate regularly to identify success rates and make adjustments to our RTI as needed to best assist our students.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue using online Evaluation Software three times a year for K-12 students	Regular progress monitoring will allow us to provide accurate individual learning plans & personalized instructional opportunities for each student	Improved evaluation scores as students progress through the school year & their K-12 educational careers	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors, Principals, Teachers	General Funds \$6,750.00
Continue using Dreambox & STAR software to improve K-5 reading & math skills	Elementary Students' proficiency levels in Reading & Math will improve	In program progress monitoring will demonstrate improved Reading & Math core content mastery	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors, Principals, Teachers	Read To Achieve \$1,100.00
Continue using MOBI Math Software with 6 th , 7 th and 8 th grade students	Student Math Proficiency levels will improve	In program progress monitoring demonstrates improved understanding of Math core content	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors, Principals, Teachers	School Council Instructional Funds \$59.00
Continue using Compass Learning Odyssey Curriculum Supplement &	Student proficiency levels will improve. & increased online	In program progress monitoring will demonstrate improved	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors,	General Funds \$1,000.00

Evaluation Software in K-8 Classrooms	testing experience will assist students with other online based assessments	understanding of K-8 core content		Principals, Teachers	
Compass ACT & KYOTE assessment formats will be available to 12 th grade students	Varied assessment methods allow more students to prove College & Career Readiness	Students who assessed as non-proficient in one format will prove their proficiency in another format	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors, Principals, Teachers	N/A Assessment Fees covered by KDE. See equitable network access details under Technology Goals
Credit recovery and online courses from Edgenuity or CTE courseware from Edmentum/Plato	Varied learning methods allow students to successfully complete coursework	Students who have fallen behind their peers in coursework will succeed using a different learning format	July 1, 2016 – June 30, 2017	Chief Academic Officer, School Counselors, Principals, Teachers	General Funds \$7,500.00

Curriculum and Instructional Integration Goals – Evaluation

The individual sections of the District Technology Plan cannot be evaluated alone. The interdependency of the individual sections of the plan are so closely related that it is difficult to decide which portions of our curriculum fall into which categories. Each area of this plan is also dependent on the success of the other portions of the plan. Staff members are given access to professional development, attend professional meetings and participate in online educational communities. From these experiences and our constant communications with other Kentucky districts we make every effort to develop and utilize innovative strategies for the delivery of specialized and rigorous academic courses and curricula through the use of technology, including distance learning technology.

The Kentucky Core Academic Standards provide guidelines for academic achievement which assist schools in preparing students for college and career readiness. Our district makes every effort to meet those guidelines. The evaluation and monitoring processes included in the above table are a continual process. They cannot be defined as “pass” or “fail.” Instead they are designed to allow us to make certain that progress is being made. Modern technological advances move at an alarming pace. It is not possible to know what new opportunities to assist our students in the learning process will arise within the next year. This is why our curriculum and instructional integration goals and evaluations are kept fluid. This allows us to add to and adjust our goals as opportunities present themselves.

Although our district consistently includes technology hardware and software in our yearly budget we fully recognize that technology is not an end goal, but the means to reach a goal. Our curriculum is designed to support and enhance 21st Century Skills of critical thinking, communication, collaboration and creativity. Our technology plan formalizes our continuing attempts to take every advantage of modern technological equipment by providing technological experiences which support the present and continuing success of our students and staff members.

Our administrators and staff maintain a steady stream of communications concerning the success of our students and consistently seek intervention methods to assist our students toward academic success. The process of gathering, using and sharing this data is a daily activity in which all parties participate as equal partners.

This section of our technology plan is evaluated every year. It is also reviewed at the beginning of each school year, whenever budgets are edited and re-approved, whenever educationally relevant legislation is approved, and whenever goals are met or must be changed or removed.

Student Technology Literacy Goals

It is our district's policy to teach Technology Literacy Skills to all K-12 students in our district. Our Digital Citizenship Curriculum includes the following nine elements. Digital Access, Digital Commerce, Digital Communication, Digital Literacy, Digital Etiquette, Digital Law, Digital Rights/ Responsibilities, Digital Health/Wellness, and Digital Security (self-protection).

Goal 1

K-12 students will receive Digital Citizenship and Digital Literacy Training as part of their curriculum each school year.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Digital Citizenship Curriculum is taught to all K-12 Students in our school district during every school year	Students will become responsible & informed Digital Citizens	Teacher Lesson Plans, Successful Digital Citizenship Course completion by students	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	N/A Curriculum is teacher created & based upon free online resources
Successful completion of the Digital Driver's License (DDL) online Digital Citizenship curriculum will be required of all 8 th grade students	Students will understand & model the nine elements of Good Digital Citizenship	The Online Digital Driver's License software tracks successful program completion data	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	N/A Digital Driver's License (DDL) Online curriculum & assessment program is free
9-12 Grade students will	Students will continue to follow &	Lesson Plans will include Digital	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals,	N/A Digital Driver's License (DDL)

successfully complete Lessons & assessments on the Nine Elements of Good Digital Citizens & refresh their DDL yearly	model the Nine Elements of Good Digital Citizens	Citizenship Lessons. DDL software tracks successful program completion & refresh data		Teachers	Online curriculum & assessment program is free
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Goal 2

District Curriculum will include projects that teach and demonstrate 21st Century Skills.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
District Curriculum will incorporate the Microsoft Office 365 Suite for use in completing class projects	School Projects will include Microsoft Office 365 projects & demonstrate 21 st Century Skill Proficiency	Lesson Plans, observations & examples of student work including use of Office 365 Tools	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	N/A Software is provided for free to Kentucky schools
Students & Staff will continue to leverage Google Docs, Google Classroom & similar online tools for class projects	21 st Century Skill Proficiency will improve. School Projects will be more interactive & widely varied	Lesson Plans, observations & examples of Student work will demonstrate the use of Google Tools	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	N/A Software is provided online for free
Include the use of Chromebooks, iPads, iPods, Digital Cameras, Student-Owned Devices (POD), Digital Projectors, AV	21 st Century Skill Proficiency will improve. School Projects will be more interactive & widely varied	Lesson Plans, observations & examples of Student work will demonstrate the effective use of widely varied	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	See Technology Goal 4, Item 3

Equipment & associated software for student projects		technology learning tools including personally owned devices.			
Students will participate in online college classes & use online resources to enhance learning	Students will learn how to successfully leverage online educational opportunities	Lesson Plans, more students using self-paced and "Dig Deeper" online learning opportunities	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Teachers	General Funds \$12,600.00
Maintain Student Technology Leadership Program	Student's modeling 21 st Century Skills	District maintains STLP Program(s)	July 1, 2016 – June 30, 2017	STLP Supervisor(s)	General Funds \$500.00
Maintain, sustain, and expand Fusion Technology Program	Student's learning and modeling 21 st Century Skills	Student's produce quality digital content and use electronic media to exemplify and present their understanding of academic content	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Fusion Teacher(s)	General Funds \$70,000.00

Student Technology Literacy Goals – Evaluation

The table above outlines a curriculum designed to assure that students are meeting the expectations of technology literacy by the 8th grade. The curriculum outlined is also designed to support and enhance the 21st Century Skills of critical thinking, communication, collaboration and creativity. Technology is so widely integrated into our daily learning activities that it is not feasible to include a complete list of all of the instructional materials and electronic resources used to support the learning goals and academic intervention strategies in our district.

Although our district consistently includes technology hardware and software in our yearly budget we fully recognize that technology is not an end goal, but the means to reach a goal. Our curriculum is designed to support and enhance 21st Century Skills of critical thinking, communication, collaboration and creativity. Our technology plan formalizes our continuing attempts to take every advantage of modern technological equipment by providing technological experiences which support the present and continuing success of our students and staff members.

Our administrators and staff maintain a steady stream of communications concerning the success of our students and consistently seek intervention methods to assist our students toward academic success. The process of gathering, using and sharing this data is a daily activity in which all parties participate as equal partners.

This section of our technology plan is evaluated every year. It is also reviewed at the beginning of each school year, whenever budgets are edited and re-approved, whenever educationally relevant legislation is approved, and whenever goals are met or must be changed or removed.

Staff Training/Professional Development Goals

Our district encourages and provides the necessary resources to ensure that our staff knows how to use new and existing technologies to improve education.

Goal 1

Off site training opportunities and conferences are attended regularly

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Superintendent, Instructional Supervisor, CIO, DTIS & Support Staff attend monthly professional meetings	Administrators & support staff will be informed about the direction of instructional technology in our region and promote successful programs in our schools	Certificates of participation & PD summary reports will provide proof of attendance	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals, Attendees	General Funds \$1,000.00
Teaching staff attend off site PD as needed to stay abreast technology use in education	Teachers will successfully integrate educational technology into their classrooms	Certificates of participation & PD summary reports will provide proof of attendance	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals	General Funds \$1,000.00 Title I \$4,764.00
Our technology staff attends KYSTE conferences as well as other off site PD as needed to stay	Technology staff will be informed about new educational technologies so that	Certificates of participation & PD summary reports will provide proof of attendance	July 1, 2016 – June 30, 2017	Superintendent, CIO, DTIS	General Funds \$2,000.00

abreast technology use in education	they can better support it & assist teachers with implementation				
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Goal 2

Staff members will be provided with onsite training in instructional technology. The district will continue to provide a District Technology Integration Specialist (DTIS), encourage peer instructional education tutelage and provide several online instructional resources to staff members.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
District Technology Integration Specialist will remain onsite & continue to provide Instructional Technology assistance & training to teachers	Teachers will have local access to a knowledgeable technology integration specialist	Teacher Lesson Plans & walkthrough observations by administrators will show technology integration	July 1, 2016 – June 30, 2017	Superintendent, Chief Academic Officer, DTIS	General Funds \$28,000.00
Teacher Technology Coaches will continue to model outstanding Technology Integration in their classrooms & offer support & assistance to their peers	Teachers will be able to learn how to best leverage classroom technology for their grade level from their peers	Teacher Lesson Plans & walkthrough observations by administrators will show technology integration	July 1, 2016 – June 30, 2017	Chief Academic Officer, DTIS, Principals, Teacher Technology Coaches	N/A This is a voluntary position
Microsoft Office 365	Staff will be able to	Sign-in sheets will	July 1, 2016 – June	Chief Academic	N/A Online software

Training will be provided to staff members	Leverage Office 365 software to improve student learning	provide proof of attendance	30, 2017	Officer, DTIS, Principals	is provided for free by Microsoft & KDE and Trainer is a district employee
Google Documents, Google Apps for Education & Drive Training will be provided to staff members	Staff will be able to Leverage Google software to improve student learning	Sign-in sheets will provide proof of attendance	July 1, 2016 – June 30, 2017	Chief Academic Officer, DTIS, Principals	N/A Online software is free from Google and Trainer is a district employee
CIITS online Teacher Technology Resource will continue to be available to all staff members	Staff members will have access to online educational communities allowing them to increase learning opportunities for students	Lesson plans are kept on CIITS & in program logs also track usage	July 1, 2016 – June 30, 2017	Chief Academic Officer, CIO, DTIS, Principals	Race To The Top \$3,000.00
Professional Growth & Effectiveness System software will be provided to staff members and they will be trained on its use	Teachers will have access to the results of walkthroughs by administrators to help them pinpoint where they may improve their performance as educators. From this data they will be able to set personal educational goals for themselves & monitor their progress online	Goals and benchmarks are observable in the logs of this software	July 1, 2016 – June 30, 2017	Chief Academic Officer, Principals	N/A Online software is provided for free by KDE

Staff Training/Professional Development Goals – Evaluation

The above table outlines many of the opportunities for training and professional development that are provided for our district staff and the means by which these activities are monitored. However due to our continuing attempts to provide individualized training on demand we cannot provide a complete and comprehensive listing of all of the training opportunities we will offer to our staff in the 2016- 2017 school year.

Our staff members are given access to professional development in many forms. Locally they are provided with an onsite District Technology Integration Specialist, onsite PD classes and the ability to participate in online training and educational communities. Other options for professional growth include opportunities to attend conferences, off site PD classes, and professional meetings.

From these experiences we hope to supply our teachers with the tools and knowledge necessary to develop and utilize innovative strategies for the delivery of specialized and rigorous academic courses and curricula. It is our intention to leverage these skills as the means to achieve academic success and enhance the development of the 21st Century Skills of critical thinking, communication, collaboration and creativity for all of our students.

Our administrators and staff maintain a steady stream of communications concerning the success of our teachers. Lesson plans are regularly checked and classroom observations occur several times each year. Staff members receive a yearly evaluation and are given the opportunity to express their own opinions on their personal performances. As part of this evaluation teachers are offered the opportunity to create a personal growth plan and request specific assistance in the form of topic specific Professional Development opportunities. The process of gathering, using and sharing this data is a daily activity in which all parties participate as equal partners.

This section of our technology plan is evaluated every year. It is also reviewed at the beginning of each school year, whenever budgets are edited and re-approved, whenever educationally relevant legislation is approved, and whenever goals are met or specific elements of the plan must be updated, changed or removed.

Technology Goals

*indicates payment #3 of a 5 year interest free payment plan for our 2013-2014 Infrastructure Improvement Project.

Goal 1

Provide, update, and maintain the district's data and voice services infrastructure.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Provide and maintain the switching hardware, fiber connections, wireless bridge and wiring to provide fast network access to all district buildings.	District will have a strong foundation for Fast reliable access to locally stored & online instructional resources	Staff feedback indicating improved reliability & increased access speeds	July 1, 2016 – June 30, 2017	Superintendent, CIO	*General Funds \$15,748.40 KETS \$1000.00
Update & maintain the district's voice services (telephone) system	Regular contact with parents via classroom and office telephones	Teacher parent contact call logs	July 1, 2016 – June 30, 2017	Superintendent, CIO, Principals, Maintenance Staff	General Funds \$1,000.00 E-Rate \$5000.00
Provide appropriate staff to manage & maintain network and voice users and infrastructure	Increased "Up Time" of district owned network hardware	Minimal time spent by tech staff on local network repair issues	July 1, 2016 – June 30, 2017	Superintendent, CIO	General Funds \$20,000.00

Goal 2

Provide and maintain fast, reliable, equitable, "always on" network access throughout our campus.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Provide & maintain fast reliable network access and transparent proxy services to offices, classrooms, and gathering places throughout our campus via LAN ports and wireless access points	Fast reliable access to locally stored & online instructional resources from anywhere on campus	District LAN/WLAN network is available in all district offices, classrooms and gathering places	July 1, 2016 – June 30, 2017	Superintendent, CIO	*General Funds \$6,433.16
Continue to provide and maintain at least one "hard wired" computer workstation for each office & classroom & one portable network capable device for each classroom	Device standardization & modernization will allow equitable network service to students and staff members in each classroom	Observation of modern hardwired & wireless school owned devices in use & on the network in classrooms	July 1, 2016 – June 30, 2017	Superintendent, CIO	Costs included in Technology Goals 1 and 3
Provide the necessary maintenance agreements, licensing, upgrade/replacement planning, and support to keep the district's hardware	District network will have minimal down time, minimal wait time for data retrieval & be designed to balance ease of access with security	Observation of minimal network downtime, fast data retrieval & fast response to repair needs	July 1, 2016 – June 30, 2017	Superintendent, CIO	General Funds \$26,553.16

and software modern and running properly					
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Goal 3

Provide and maintain the necessary technology policies, hardware, administrative software, services and online communication tools to allow students, staff and parents to make the most effective use of district technology resources to improve student learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Provide Policies and Acceptable Use Agreements that allow and encourage the responsible use of personally owned network capable devices for educational use on school property	Students/Staff will have access to 21 st century learning tools as well as a BYOD option & a clear understanding of expected behaviors when using technology in our schools	Observable instructionally sound use of personally and district owned technology devices by Staff/Students for classroom & administrative activities	July 1, 2016 – June 30, 2017	Board of Education, Superintendent, CIO, Principals, Teachers	General Funds \$100.00
Provide & maintain 21 st Century Classrooms and learning environments whenever possible	Students will be more successful and more actively involved in the learning process	Observable & instructionally sound use of 21 st Century /SMART technology in classrooms	July 1, 2016 – June 30, 2017	Superintendent, CIO, Principals, Teachers	General Funds \$1,000.00 KETS \$7,000
Provide and maintain servers, network capable computer workstations, printers,	Students will develop 21 st Century Skills, be more successful academically &	Lesson plans & observations will include student created classroom projects that	July 1, 2016 – June 30, 2017	Superintendent, CIO, Principals, Teachers	General Funds \$45,000 Title 1 \$45,000.00 KETS \$8,000

Mobile/Multi Media Internet Capable Devices (MIDs) such as iPads, as well as iPods, Digital Cameras, Digital Projectors, AV Equipment, N-Computing Workstations/Servers & associated software for student projects	more actively involved in the learning process	demonstrate instructionally sound use of MIDs, iPods, Digital Cameras, Digital Projectors, AV Equipment & associated software			
Provide & maintain high quality administrative software licensing	Administrative software will provide efficient and accurate data management	Consistent use of high quality administrative software in district classrooms, offices, libraries and cafeterias	July 1, 2016 – June 30, 2017	Superintendent, CIO	General Funds \$8,000.00
Provide and maintain District and School Websites, Facebook Pages, School Messenger parent notification system, and IC Parent & Student Portal. Set up IC Student Portal so parents & students can see assignments, grades and other information necessary to help students succeed academically.	Interested parties will know what is happening in our schools & be able to easily find school related information. Parents will receive phone, text and e-mail notifications about school activities & be able to check their children's progress at anytime via IC Parent Portal. IC Student Portal will allow students to	Observable use of online communication tools to keep students, parents, staff, community members & potential students informed about school related activities	July 1, 2016 – June 30, 2017	District & School Administrators, CIO, DTIS, Principals, Teachers	General Funds \$6,738.00

	monitor their own academic progress.				
Provide appropriate technology staff to maintain policies, technology hardware, software, services, and online communications	District policies and online communications will be kept up to date, hardware and software will have minimal down time, minimal wait time for data retrieval & be designed to balance ease of access with security	Observable updates to online communications, software, and hardware issues addressed as needed.	July 1, 2016 – June 30, 2017	Board of Education, District & School Administrators	General Funds \$48,000.00

Technology Goals – Evaluation

Our district provides educational technology opportunities, and maintains the hardware and software that supports those opportunities, for the express purpose of improving learning and preparing our students for future success. We have a clear understanding of the uniqueness of each individual and respect the fact that each student learns differently. Technology offers our students a wide variety of learning experiences and challenges and prepares them to be successful in the modern world. It also offers our staff an endless array of teaching tools and educational resources to meet the needs of our students.

Although we will continue to maintain the hardware, software and 21st century classrooms we already have in our schools we feel that we must also prepare for future growth and new educational opportunities. In order to support our district's vision for an up to date, technology-rich educational environment we have devised and followed a three step plan to achieve our technology goals. In order for our staff and student to leverage the incredible variety of educational resources available in the cloud we first provided fast, efficient and reliable network access throughout our campus. Next we provided computers and network capable devices so that our staff and students could access that network. Finally we prepare our students, staff and administrators to use these readily available resources effectively and safely.

In order to ensure compatibility of interconnected systems we chose experienced vendors who have successfully deployed these sorts of systems and programs in other schools in our region. Our planning meetings include not only these vendors but also our Regional KETS engineer who has an excellent working knowledge of KETS and KEN standards, our Superintendent and a representative of our local technology staff.

As detailed in the table above our infrastructure update included new switches, a virtualized server environment and wireless deployment throughout our district. After this foundation step was completed we moved the improvement process into our classrooms. After making certain that our policies made clear what was expected of staff and students we began our move toward increasing network availability by providing hardwired and wireless devices to our teachers and students which include a Bring Your Own Device (BYOD) environment. Along with this move we provide both Professional Development opportunities for our staff and Digital Citizenship training to our students.

The indicators of success for the physical aspects of our technology plan are easily evaluated by a simple check list. Our teachers' lesson plans and evaluations as well as their regular use of educational resources and learning communities online will provide the best indicator of technology integration into our curricula and instruction. Improved test scores for our students on state testing will prove that we have succeeded in providing them with the technology-rich educational environment which promotes individual mastery of 21st Century Skills.

Budget Summary

Budget details are in the tables above under the corresponding goals. The budget totals listed below are misleading because successful technology integration is a collaborative effort which includes many high quality free opportunities for our district. The district's hardware and software, especially network hardware and software, must be strong and well maintained to provide for the successful delivery of network accessible resources to our classrooms and offices. Therefore budget allowances should not be used as an indication of the relative importance of technology goals.

Acquired Technologies and Professional Development	E-Rate	KETS	Other (Specify)
Curriculum and Instructional Integration			\$16,409.00
Student Technology Literacy			\$83,100.00
Staff Training/Professional Development			\$39,764.00
Technology	\$5,000.00	\$16,000.00	\$223,572.72
TOTAL			\$383,845.72

Budget Summary – Narrative

Budgeting for our school district is a very complex process. Our staff members, programs and departments work together to leverage funding in the most efficient way possible. Due to serious funding cuts at the national and state levels our local budget has been stretched much further in recent years. Many grant and other programs are feeling this stress as well and have been forced to reduce the amount of funding assistance they can provide to individual applicants or have drastically reduced the number of applicant's they are able to assist.

We have always been conservative and responsible with our technology resources, but funding forecasts for the coming years are expected to bring even more cuts to educational programs. We are grateful for the Kentucky Educational Network (KEN) which provides us with high speed access to the Word Wide Web and a robust, transparent proxy service through Lightspeed Systems. Without these services we could not access the many free online educational resources which are used daily by our staff and students.

As e-rate assistance for TELCO is reduced we are seeking an energy systems grant to help us replace our aging phone system and voice service with a "Voice Over IP" solution. E-rate's focus on network connectivity, switching, and wireless access comes too late for our district which will be making the third payment on a five year loan for a recent Infrastructure Upgrade Project during the 2016-2017 school year. This loan has been included in the "Other" column of the Budget Summary Table. Now that we feel confident in the quality and availability of our Network Infrastructure we are concentrating on providing end user devices and the efficient use of online resources by staff and students. Budgeting details are included in the tables under each goal and the Budget Summary above covers only the totals spent under each of the four focuses of our technology plan.

Attachments/Appendices (Optional)