Technology Plan
Boone County Schools
Florence, Kentucky

ACHIEVING EXCELLENCE TOGETHER

www.boone.kyschools.us

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Acknowledgments

District Technology Staff

Bonita Bolin, Software Coordinator

Randy Deaton, Network Technician

Mike Hammerle, Network Manager

Mary Ann Rankin, Director of Technology

David Staton, Network Technician

School Technology Coordinators

Chris Berry, North Pointe Elementary School

Lenora Broome, RA Jones Middle School

Amy Coleman, Mann Elementary School

Judy Hibner, Florence Elementary School

Brenda Klaas, Ryle High School

Melanie Roberts, Longbranch Elem School

School Library Media Specialists

Amy Lutes, Gray Middle School

Louanna Wyatt, Boone County High School

Technology Integration Specialists

Lisa Stamper, District Office

Chris Walsh, District Office

Instructional Coaches

Jennifer Cox, RA Jones Middle School

Krista Decker, Longbranch Elem School

School Administrators

Linda Black, Yealey Elementary Principal

Erika Bowles, Longbranch Elem Principal

Other

Julia Pile, Parent – Stephens Elem School

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Executive Summary

The Boone County Technology Plan focuses on the mission, plan of action, goals, and vision of the school district. The Technology Plan embraces 21st Century Skills, National Educational Technology Standards and the Common Core Standards. By providing students and staff with accessible and effective technologies, all stakeholders will have the opportunity to develop job-embedded skills that enhance learning, increase productivity and prepare for the future.

District Mission:
Representing and in partnership with our stakeholders, the Boone County School District recognizes that all children can learn and dedicates itself to providing a challenging educational environment that allows each student to achieve to his or her highest potential as a learner and citizen.

District Vision:
Every graduate ready for college, ready for career, and ready for life.

Theory of Action:
If Boone County Schools operate as Professional Learning Communities (PLCs) focused on high quality instruction for the 21st century, then teaching, learning, and student performance will improve for every student, in every classroom, every day.

Operational Values:
- Every student will engage in instruction differentiated based on their needs, skills, interests, and future goals.
- Every student will explore meaningful, challenging, rigorous, relevant content from teachers committed to lifelong learning.
- Every student will use 21st century tools while cultivating 21st century skills, such as creative and critical thinking, problem-solving, collaboration and communication,
- Every student will grow academically and personally, as demonstrated by multiple measures.
- Every student will learn in safe, accessible, community-conscious environments which value and celebrate diversity and encourage strong parent and community engagement.

The Boone County School District is committed to being Future Ready as demonstrated by signing the Future Ready pledge. The district is committed to work with students, educators, and members of the community to become Future Ready by engaging in a wide range of activities such as:
- Fostering and leading a culture of digital learning within our schools
- Empowering educators through professional learning opportunities
- Accelerating progress toward universal access for all students to quality devices
- Providing access to quality digital content

Planning Process and Methodology

The district technology plan is a plan for continuous improvement, monitored progress, and an organized focus on goals for supporting instruction. The plan was developed and will be monitored by the District Technology Committee and District Administration and is a living document – evolving along with the technology and curriculum it supports. Effectiveness of the plan will be demonstrated by the knowledge of students graduating from Boone County Schools, as well as increased use and integration of technology by teachers.

Current Technology and Resources

The Technology Department consists of: 1 Director, 1 Network Manager, 1 Software Coordinator, 4 Network Technicians, 4 PC Technicians and 2 Technology Resource Teachers, 1 Secretary and 1 Staff Support. This department supports 4 high schools, 5 middle schools, 14 elementary schools, 1 Alternative School, 1 Area Technology Center and multiple district wide departments. Each school site has a School Technology Coordinator.

Boone County has a centralized data center, located at the district office, with a 2 GB connection to KDE. Within the district, all locations are connected via 1GB fiber. Classrooms are connected to the LAN via 1GB switches. All 23 schools have wireless connectivity – with an access point in every classroom.

Data collected from the December Technology Readiness Survey indicates:
- 3367 elementary student workstations
- 3012 middle/high student workstations
- 1649 teacher workstations
- 448 administrator workstations

Technology Resource Teachers provide numerous hours of training/professional development based upon building/district initiatives. All trainings are connected to standards, provide ideas for the BYOT classroom and include an emphasis on Common Core and NETS standards. We continue to struggle with getting the appropriate staff at the appropriate trainings.

The Software Coordinator provides numerous hours of support and training for Infinite Campus, CIITS, Destiny, Guidance Counselors, Library Media Specialists, and other staff and educational softwares.

The Network Manager and technicians maintain a solid network and workstations that support learning and productivity.

Curriculum and Instructional Integration Goals

Goal 1

Instructional staff will provide support and training necessary for teachers to successfully integrate technology into instruction.

Action Plan: Projects/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Teachers and students will collaborate, and publish with peers, experts or others employing a variety of digital environments and media	Students and teachers will communicate information and ideas effectively to multiple audiences using a variety of digital environments and media	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Incorporate technology into instructional strategies and other best practices with a focus on the BYOT classroom	Students will have greater exposure to using technology to complete various tasks.	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Provide learning opportunities that support the district's pursuit of blended/virtual learning and a district LMS.	Students and teachers will have more opportunities to increase student engagement and differentiated learning.	7/1/15 - 6/30/16	Instructional Coach Technology Resource Teachers	Local
Provide examples of tools and implementation ideas that enhance and support collaboration, problem solving, and future ready students.	Students will have greater exposure to using technology to complete various tasks.	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Teachers will advocate and provide opportunities for student to practice safe, legal and responsible use	Students will demonstrate personal responsibility for	7/1/15 - 6/30/16	Technology Resource Teachers	Local

of information and technology	lifelong learning as responsible digital citizens.			
Provide Technology Resource Teachers	Increased technology integration in instruction; increased staff proficiency; on demand assistance	7/1/15 - 6/30/16	Director of Technology	Local

Goal 2

In alignment with state/district policies, we will address the need for awareness and integration of digital citizenship, Internet safety, and social media responsibilities and consequences for all students.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Digital citizenship, Internet safety and social media lessons taught to all students in compliance with federal law, state and district policies.	Students will receive age/grade appropriate lesson on digital citizenship, Internet safety and social media. Students will better understand the responsibility and the consequences regarding digital citizenship, Internet safety, and social media.	7/1/15 - 6/30/16	Director of Technology, Building Principals, Technology Resource Teachers, Instructional Coaches	Local
Instructional resources include but are not limited to: CyberSmart Common Sense Media Web Wise Kids USA-SOS NetSmartz Webonauts iSAFE	Use of instructional resources will support instruction of digital citizenship, Internet safety, and social media.	7/1/15 - 6/30/16	Technology Resource Teachers, Building Principals, Instructional Coaches	Local

Curriculum and Instructional Integration Goals – Evaluation

Monitoring and evaluating the technology plan is continuous. Regular reports on progress will be conveyed to the Chief Academic Officer/Deputy Superintendent and Assistant Superintendent of Learning Support Services.

Curriculum and Instructional Integration Goals will be evaluated by items such as, but not limited to:
- Increased use of technology in the classroom
- Board approved Technology Curriculum use and demonstration of skills with work samples
- Data from applications such as Compass Odyssey, KYVL, keyboarding programs, Blackboard, Google Classroom
- School Technology Coordinator meetings
- District Technology Committee meetings
- Technology Department meetings
- Learning Support Staff meetings
- Requested trainings and training logs

Student Technology Literacy Goals

Goal 1

Use technology in the classroom to increase student engagement, assist in meeting the instructional needs of learners and providing a medium for expression and communication.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Provide access to multiple technologies to refine critical thinking, foster creativity, and demonstrate knowledge of the best tools for specific tasks	Students will be more engaged in learning. Teachers will be able to use technology tools to enhance learning, increase productivity, and promote creativity	7/1/15 – 6/30/16	Director of Technology Technology Resource Teachers	KETS Local
Use the STLP program to provide opportunities through the use of technology	Motivate and advance the individual capabilities of students as technology instructional leaders	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Continue to support use of web tools that provide growth in 21st Century Skills	Students will be more engaged in learning	7/1/15 - 6/30/16	Director of Technology, Technology Resource Teachers	KETS Local
Encourage proficient keyboarding instruction for students	Students will become more productive while on the computer	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Encourage teachers to advocate and provide opportunities for student to practice safe, legal and responsible use of information and technology	Students will demonstrate personal responsibility for lifelong learning	7/1/15 - 6/30/16	Technology Resource Teachers	Local

Student Technology Literacy Goals – Evaluation

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- School Technology Coordinator meetings
- District Technology Committee meetings
- Technology Department meetings
- Learning Support Staff meetings

Staff Training/Professional Development Goals

Goal 1

Job-embedded, standards-based, and program specific professional development will be provided by the Technology Resource Teachers in an individual, small group, and/or large group setting.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Provide training, assistance and support for the district wide LMS and other software/tools for office staff, administrators, counselors and teachers	Increase student engagement and improve productivity and efficiency in the various softwares.	7/1/15 - 6/30/16	Director of Technology, Technology Resource Teachers	Local
TRTs will post, verbalize and/or model technology learning targets before, during and after trainings	Teachers will be able to use technology tools to enhance learning, increase productivity, and promote creativity	7/1/15 - 6/30/16	Technology Resource Teachers	Local
TRTs will use assessment during and/or after training to document learning, emphasize learning, and evaluate the effectiveness of the training	Teachers will be able to discuss how the training will be used in the real world. TRTs will be able to modify trainings that do not meet the learning targets and needs of the teachers	7/1/15 - 6/30/16	Technology Resource Teachers	Local
Provide training that includes social media, online collaboration, BYOT and future ready skills	Future Ready students and staff with greater social media and collaborative tool sets	7/1/15 - 6/30/16	Technology Resource Teachers	Local

Strategy/Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Provide Infinite Campus grade book training and support for all teachers.	Improve teacher proficiency in electronic grade management; Update/Improve teacher skills as new features and enhancements are added to the Infinite Campus Grade book	7/1/15 - 6/30/16	Software Coordinator, Technology Resource Teachers	KETS Local

Goal 2

Provide professional development opportunities for technology staff to improve their technical proficiency and ability to integrate technology into the curriculum.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Monthly department meetings	Common planning across hardware and software; sharing of ideas; review of department procedures	7/1/15 - 6/30/16	Director of Technology	Local
Attend monthly, regional meetings	Sharing and acquiring new ideas; preparing for state initiatives	7/1/15 - 6/30/16	Director of Technology, Network Manager, Network Technicians, Technology Resource Teachers	Local
Support attendance at technology conferences, webinars and video conferencing opportunities	Acquire ideas for best practices in integration of technology to increase student achievement, engagement and support learning	7/1/15 - 6/30/16	Director of Technology, Network Manager, Software Coordinator, Technology Resource Teachers	Local

Staff Training/Professional Development Goals – Evaluation

Monitoring and evaluating the technology plan is continuous. Regular reports on progress will be conveyed to the Chief Academic Officer/Deputy Superintendent and Assistant Superintendent of Learning Support Services.

Staff Training/Professional Development Goals will be evaluated by items such as, but not limited to:

- Training logs and evaluations from before school, after school, planning time, and summer trainings
- Coordination of training topics with Instructional Coaches and Directors of Teaching and Learning
- Alignment of trainings to include Common Core
- Incorporation of Marzano strategies in trainings
- District Technology Committee meetings
- Learning Support Staff meetings

Technology Goals

Goal 1

Students will have adequate and effective access to technology.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Incorporate use of BYOT into classroom instruction	Students will be more engaged in learning and have greater understanding of tools to use for particular tasks	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
When available, teachers will integrate interactive classroom tools into classroom instruction	Students will be more engaged in learning	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Work with School Technology Coordinators and Technology Committees to plan and implement long term vision for technology in their school	Establishes a technical and instructional support system at the school level to assure the proper usage of technology by both teachers and students	7/1/15 - 6/30/16	Director of Technology, Technology Resource Teachers	KETS Local
Collaborate with school personnel, district personnel, and School Technology Coordinator to solve instructional and technical problems for the school	Establishes a technical and instructional support system at the school level to assure the proper usage of technology by both teachers and students	7/1/15 - 6/30/16	Director of Technology, Network Manager, Technology Resource Teachers	Local
Evaluate and recommend instructional software, websites, and other	Establishes a technical and instructional support system at the school level	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local

technological resources as needed by the schools	to assure the proper usage of technology by both teachers and students			
Provide students/ teachers 24/7 access to technology - including district purchased software/resources	Students will be able to use the available technology before, during and after school hours to complete learning activities	7/1/15 - 6/30/16	Director of Technology, Network Manager, Technology Resource Teachers	KETS Local
Provide students/parents online access to grades, assignments, attendance and school communications through the Infinite Campus portal.	Improve communication between students, parents and teachers; Improve student performance through parent involvement	7/1/15 - 6/30/16	Software Coordinator	KETS Local

Goal 2

Educators and staff will have adequate and effective access to technology.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
When available, teachers will integrate interactive classroom tools into classroom instruction	Students will be more engaged in learning	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Incorporate use of BYOT devices into classroom instruction	Students will be more engaged in learning	7/1/15 - 6/30/16	Technology Resource Teachers	KETS Local
Provide training, assistance and support on Infinite Campus for office staff, administrators, counselors and teachers	Improve, productivity and efficiency in the Campus product; Maintain consistent data; Reduce data entry errors; Update/Improve skills when new features/enhancements are added to Infinite Campus	7/1/15 - 6/30/16	Director of Technology, Software Coordinator, Technology Resource Teachers	KETS Local
Encourage communication among staff using multiple applications including school and classroom websites, social media, and district LMS	Real time collaboration and communication	7/1/15 - 6/30/16	Director of Technology, Software Coordinator, Technology Resource Teachers	Local
Technology Department will meet with each cluster to discuss replacement cycles for classroom hardware	Teachers and students will be better equipped to integrate technology into instruction	7/1/15 – 6/30/16	Director of Technology	KETS Local

Goal 3

The Technology Department will develop procedures and communicate those procedures to ensure effective operation and maintenance of the network.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Develop technology procedures	Better communication within and between the technology department and schools; consistent processes and data	7/1/15 - 6/30/16	Technology Department	Local
Develop a Disaster Recovery Plan	Proper planning for establishing connectivity and service to schools and departments in the event of a crisis, emergency or disaster.	7/1/15 - 6/30/16	Technology Department	Local

Goal 4

The Technology Department will provide appropriate/timely support, maintain records, and ensure infrastructure supports current and future needs.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Maintain proper network resources needed for providing, wifi access for personal devices	Effective training for teachers; anywhere, anytime access to the Internet and educational material	7/1/15 - 6/30/16	Network Manager, Technicians	Local
Upgrade wireless infrastructure at Florence, Mann, Yealey and BCHS. Upgrade wireless infrastructure at CHS funding permitting.	Adequate wireless coverage to support instruction that meets current and future demands	7/1/15 - 6/30/16	Network Manager, Technicians	Local
Implement and support district wide VOIP phone system	Consistent communication and access both internally and externally	7/1/15 - 6/30/16	Director of Technology, Network Manager, Technicians	Local
Conduct quarterly School Technology Coordinator meetings	Consistent information shared to all schools; collaborative decision making	7/1/15 - 6/30/16	Director of Technology, Network Manager	Local
Investigate Windows 8 functionality and imaging with desktops and mobile devices	Provide access to latest instructional resources to meet the learning needs of students, productivity needs of staff	7/1/15 - 6/30/16	Technicians	KETS
Assist schools with a hardware replacement plan	Provide access to latest instructional resources to meet the learning needs of	7/1/15 - 6/30/16	Network Manager	KETS

	students, productivity needs of staff			
Maintain licensing/ inventory/fixed asset records	Software compliance; provide the ability to report and find equipment/ software as needed	7/1/15 - 6/30/16	Network Manager	Local

Technology Goals – Evaluation

Monitoring and evaluating the technology plan is continuous. Regular reports on progress will be conveyed to the Chief Operating Officer/Deputy Superintendent and Assistant Superintendent of Learning Support Services.

Technology Goals will be evaluated by items such as, but not limited to:

- Inventory
- Audits of building infrastructure
- SCCM training and implementation progress
- Data gathered from vendors and in-house pilot testing

Budget Summary

Note: duplicate this page for each year as needed (if a multiyear plan)

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify)
Best practices, integration of new technologies and learning opportunities						$23,000 Local
Infinite Campus					$121,000	
Hardware and software licensing/updates					$290,463	$80,000 Local
Replacement of workstations/mobile devices/printers for students, teachers, administrators					$252,488	
Teleco			$182,400			$194,400 Local
Webhosting						$18,360 Local
Infrastructure Support						$220,500 Local
TOTAL			$182,400		$663,951	$536,260

Estimated amounts based upon historical Local and KETS funding.

Budget Summary – Narrative

Recurring fees for district wide computer software such as Compass Odyssey are paid from KETS funds. We also use KETS funds for Campus Agreement and Infinite Campus renewals.

KETS money is the primary source of funding for workstations/mobile devices/printers for students, teachers and administrators. We work with each school to develop a replacement cycle for workstations so they can better budget and plan for their expenses and needs.

Reimbursements from E-Rate typically go toward upgrades to infrastructure.