

Technology Plan
Boone County Schools
Florence, Kentucky



www.boone.kyschools.us

Creation Date: December 2010
Plan Start Date: July 1, 2011
Plan Expiration Date: June 30, 2012
Approved Date: Pending

Acknowledgments

District Technology Staff

Mary Ann Rankin, Director of Technology
Mike Hammerle, Network Manager
Roger Scroggin, Software Coordinator
Scott Spicher, Media Systems Coordinator
Randy Deaton, Network Technician
David Staton, Network Technician
Scott Trame, Network Technician
Mike Cady, PC Technician
David Foster, PC Technician
Jeremy Gamble, PC Technician
Bert Morris, PC Technician

Additional District Contributors

Mike Blevins, Chief Operating Officer/Deputy Superintendent
Karen Cheser, Assistant Superintendent
Pat Murray, Chief Academic Officer/Deputy Superintendent

Technology Integration Specialist

Bonita Bolin, Middle/High
Mary Ciccarella, Elementary

Table of Contents

1	Acknowledgments
2	Table of Contents
3	Executive Summary
4	Planning Process/Methodology
5	Technology Vision and Goals
10	Student Technology Literacy Skills
12	Integration of Technology into Curriculum and Instruction
14	Staff Training/Professional Development Goals
16	Current Technology and Resources
17	Evaluation
18	Budget

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.

Plan 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.

Goals:

- Every student will graduate college and career ready.
- All students and staff will work in a safe and positive learning environment that focuses on lifelong learning and self-renewal.
- The district will develop and maintain strong and productive partnerships with parents and the community.
- The district will provide high quality, timely support services and resources to assure student and staff success.

Vision:

It is the district's vision that students be engaged in a stimulating academic environment and a challenging curriculum that is student centered and focused on inquiry-based learning. We believe that technology expands our instructional repertoire and is a critical tool for learning 21st century skills. It is an essential vehicle for maximizing the capacity of all teachers and learners. We envision that technology will be effectively supported for all students and staff to:

- Provide global access to information
- Provide access to general curriculum
- Meet the instructional needs of all learners
- Refine critical thinking skills and foster creativity
- Provide a medium for expression and communication
- Collect, assess, and use performance information
- Improve the effectiveness of administrative tasks
- Provide skills and proficiencies necessary for the workforce

Planning Process / 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 by members of the Technology Department and District Office 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.

Technology Vision and 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 technology devices into classroom instruction	Students will be more engaged in learning	7/1/11 – 6/30/12	Technology Resource Teachers	KETS Local
When available, teachers will integrate interactive classroom tools into classroom instruction	Students will be more engaged in learning	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology, Network Manager, Technology Resource Teachers	Local
Evaluate and recommend instructional software, websites, and other technological resources as needed by the schools	Establishes a technical and instructional support system at the school level to assure the proper usage of technology by both teachers and students	7/1/11 – 6/30/12	Technology Resource Teachers	KETS Local

Provide students/ teachers 24/7 access to technology - including district purchased software	Students will be able to use the available technology before, during and after school hours to complete learning activities	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Software Coordinator	KETS Local
Provide MS-HS students online access to course grades and assignments	Improve classroom performance; Improve communication between students and teachers	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Technology Resource Teachers	KETS Local
Use VBrick as a delivery method to deliver cable down to the teacher desktop level and to establish school media libraries of digital content	Students will be more engaged in learning through more use of on demand video content	7/1/11 – 6/30/12	Media Systems Coordinator	Construction

Use United Streaming to offer on demand video resources to enhance student understanding and learning	Teachers will be able to differentiate instruction using visual cues through on demand videos	7/1/11 – 6/30/12	Media Systems Coordinator	KETS Local
Incorporate use of technology devices into classroom instruction	Students will be more engaged in learning	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology, Software Coordinator, Technology Resource Teachers	KETS Local
Encourage communication among staff using multiple applications including school and classroom websites	Real time collaboration and communication	7/1/11 – 6/30/12	Director of Technology, Technology Resource Teachers; Media Systems Coordinator	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	7/1/11 – 6/30/12	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
Research, with the intent of providing, wifi access for guests	Effective training for teachers; anywhere, anytime access to the Internet and educational material	7/1/11 – 6/30/12	Network Manager, Technicians	Local
Replacement of infrastructure hardware with latest technology	Adequate data storage and servers to support instruction and utility applications that meet current and future demands	7/1/11 – 6/30/12	Network Manager, Technicians	ERate Local

Analyzing telephone resources and planning for acquisition of VOIP phone system	Better communication and access both internally and externally	7/1/11 – 6/30/12	Director of Technology, Network Manager, Technicians	Erate Local Construction
Conduct quarterly School Technology Coordinator meetings	Consistent information shared to all schools; collaborative decision making	7/1/11 – 6/30/12	Director of Technology, Network Manager	Local
Consolidate printers/copiers for more efficient operation	Improve reliability and efficiency in the production of consumables	7/1/11 – 6/30/12	Director of Technology, Network Manager	KETS Local
Windows 7 Deployment	Provide access to latest instructional resources to meet the learning needs of students, productivity needs of staff	7/1/11 – 6/30/12	Technicians	KETS
Assist schools with a hardware replacement plan	Provide access to latest instructional resources to meet the learning needs of students, productivity needs of staff	7/1/11 – 6/30/12	Network Manager	KETS
Maintain licensing/inventory/fixed asset records	Software compliance; provide the ability to report and find equipment/software as needed	7/1/11 – 6/30/12	Network Manager	Local

Student Technology Literacy Skills

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 examples of technology use for common core standards	Allows student opportunity to meet technology standards	7/1/11 – 6/30/12	Technology Resource Teachers	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	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology, Technology Resource Teachers	KETS Local
Encourage proficient keyboarding instruction for students	Students will become more productive while on the computer	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Technology Resource Teachers	Local

Goal 2

Provide access to multiple technologies to refine critical thinking, foster creativity and demonstrate knowledge of the best tools for specific tasks.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Continue to support use of web tools that provide growth in 21st Century Skills	Students will be more engaged in learning	7/1/11 – 6/30/12	Director of Technology, Technology Resource Teachers	KETS Local
Align available software programs to common core	Allows teachers to provide differentiated instruction	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Technology Resource Teachers	Local

Integration of Technology into Curricula and Instruction

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
When available, 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	7/1/11 – 6/30/12	Technology Resource Teachers	KETS Local
Provide examples of technology use for common core standards	Allows teachers opportunity to meet technology standards	7/1/11 – 6/30/12	Technology Resource Teachers	Local
Hold VBrick trainings on how to encode and access content, and how to create and access school and district media libraries	Teachers will have a better understanding on how to use on demand video content to enhance their instruction	7/1/11 – 6/30/12	Media Systems Coordinator	Construction
Hold training classes on United Streaming and provide possible lesson ideas to teachers to enhance classroom instruction	Teachers will have a better understanding on how to use on demand video content to enhance their instruction	7/1/11 – 6/30/12	Media Systems Coordinator	KETS Local
Teachers will 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	7/1/11 – 6/30/12	Technology Resource Teachers	Local

When available, teachers will integrate interactive classroom tools into classroom instruction	Students will be more engaged in learning	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology, Technology Resource Teachers	KETS Local
Provide Technology Resource Teachers	Increased technology integration in instruction; increased staff proficiency; on demand assistance	7/1/11 – 6/30/12	Director of Technology	Local

Goal 2

Define activities that integrate the Common Core Standards with NETS Standards and district approved Technology Curriculum.

Action Plan: Strategies/Activities

Strategy/ Activity	Instructional Outcome	Timeline	Person(s) Responsible	Funding Source
Align district supported software programs to common core	Allows teachers to provide differentiated instruction.	7/1/11 – 6/30/12	Technology Resource Teachers	Local
Provide examples of technology use for common core standards	Allows students and teachers the opportunity to meet technology standards	7/1/11 – 6/30/12	Technology Resource Teachers	Local

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 on District wide software for office staff, administrators, counselors and teachers	Improve productivity and efficiency in the various software; Update/ Improve skills when new features/ enhancements are added to the various software	7/1/11 – 6/30/12	Director of Technology, Technology Resource Teachers	Local Title II D
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	7/1/11 – 6/30/12	Technology Resource Teachers	Local
TRTs will use exit slips 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	7/1/11 – 6/30/12	Technology Resource Teachers	Local
Identify areas of training needs for collaborative services in the cloud computing environment	Supports students and staff communication and collaborative efforts	7/1/11 – 6/30/12	Technology Resource Teachers	Local

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	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology	Local
Attend monthly, regional meetings	Sharing and acquiring new ideas; preparing for state initiatives	7/1/11 – 6/30/12	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	7/1/11 – 6/30/12	Director of Technology, Network Manager, Software Coordinator	Local Title II D

Current Technology and Resources

The Technology Department consists of: 1 Director, 1 Network Manager, 1 Software Coordinator, 1 Media Systems Coordinator, 3 Network Technicians, 4 PC Technicians and 2 Technology Resource Teachers. This department supports 4 high schools, 5 middle schools, and 13 elementary schools. Each school site has a School Technology Coordinator.

Boone County has a centralized data center, located at the district office, with a 100 MB connection to KDE. Within the district, all locations are connected via 1GB fiber. Classrooms are connected to the LAN via 1GB switches. 16 of the 22 schools have wireless connectivity.

Data collected from the December Technology Readiness Survey indicates:

- 3429 elementary student workstations
- 2586 middle/high student workstations
- 1699 teacher workstations
- 475 administrator workstations

Technology Resource Teachers provide numerous hours of training/professional development based upon building/district initiatives. All trainings are connected to standards, with the emphasis now on the Common Core. 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.

The Media Systems Coordinator is the district's webmaster and works with the schools on the development of school websites. He is also the district contact for United Streaming and VBrick.

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

Evaluation

Monitoring and evaluation of the technology plan is continuous.

The Technology Department meets monthly and will regularly report progress on the district technology plan goals. Items such as, but not limited to, will be used to report progress:

- Data from applications such as Compass Odyssey, United Streaming, VBrick
- Training logs and evaluations
- School Technology Coordinator meetings
- Bandwidth monitoring
- Requests for specific training
- Website maintenance
- Fixed asset reports

Budget Summary

School Year: 2011-2012

Annual Budget Summary

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

- List the professional development and technologies to be acquired during each year of the agency's plan.
- List all funding sources for recurring services, anticipated purchases, and professional development.
- Include the total of all technology resources to support the district's technology initiatives.
- Note: At least 25% of the funds allocated to an LEA through the *Title IID ED Tech Program* (Competitive and Non-Competitive), must be allocated for professional development activities.
- This information will be helpful in completing Item 25D on the E-Rate Form 471.

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		\$10,000.00				
Infinite Campus					\$115,500.00	
Hardware and software licensing/ updates					\$380,000.00*	Local \$60,000.00
Replacement of workstations/ mobile devices/ printers for students, teachers, administrators					\$354,000.00*	
Infrastructure support			\$300,000.00			
Internet Content Filtering						Local \$31,000.00
Total		\$10,000.00	\$300,000.00		\$845,500.00*	\$91,000.00

*Estimated amount based upon historical funding from KDE.