

12369

2018/2019 Technology Plan
Breathitt County School District
Jackson, Kentucky

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

Creation Date: November 30, 2017

As per the SLD: The technology plan creation date is the month and year the technology plan was written, not the date when you began to develop or draft it. The SLD defines the creation date as the date it first contained all five required elements in sufficient detail to support the services requested on your Form 470. The creation date must be prior to the date the Form 470(s) is posted.

Update to Plan Date:

Plan Start Date: July 1, 2018

Plan Expiration Date: June 30, 2019

Local Board Approved Date: Pending

Approved Date: Pending Commonwealth Approval

Acknowledgments

District Technology Staff

Phillip Watts – District Technology Coordinator
Adrian Hudson – District Technician
Byron Johnson – District Technician

School Technology Coordinators

School Library Media Specialists

Hack Hudson – MRC,BHS,SMS

Technology Integration Specialist

Susan Watts (Innovation Coordinator)

Additional District Contributors

Dixie Combs – SMS
Mike Murphy – State Manager
Phillip Watts – Superintendent
Jerry Smith – ATC Teacher
Stacy McKnight – Supt Office

Students

Other

William Noble – Principal LBJ

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Executive Summary

Over the last decade, the Breathitt County Board of Education has made significant investments in educational technology in the belief that graduating students need to be able to understand and use technology to compete in the job markets of the 21st century. These investments, along with the items listed in our Technology Plan for 2018-2019, will allow the Breathitt County School System to develop a first-rate, high-speed wide area network capable of providing the tools that administrators, teachers, and students need to successfully complete their administrative and scholarly tasks.

Providing an up-to-date responsive technical environment and the training and resources users need to employ technology thoughtfully is a never-ending task that begins with carefully considered plans. The Breathitt County School District Technology Plan responds to the concerns and needs identified by this committee and provides the goals, strategies, budgets, and timelines.

The district technology goals are to:

- Increase student achievement in curriculum subject areas and technology literacy.
- Increase the Teachers' use of technology tools for innovative and effective teaching and learning.
- Improve communication between the district and parents and the community.

The district will use ARRA IID funds for technology improvements that will help build sustainable capacity for integrating technology into curricula and instruction in order to improve student achievement. Short-term commitments will be used for technology equipment, intelligent classrooms equipment and technology training.

Mission Statement

Technology is an essential component of the mission of the Breathitt County Schools in that we are committed to ensure that every student has the technology skills necessary to compete in the 21st century. Our basic goal is the integration of technology into our teaching, student learning and activities where appropriate. The Breathitt County Schools will:

- Prepare students to use technology for activities that are in accordance with state and national standards.
- Provide leadership in the development, implementation and assessment of technology for use in educational settings.

Given our mission, we expect the following of our faculty and students:

- The effective use of technology to support instruction; access, analyze, and incorporate data in program assessment; enhance professional growth and productivity; communicate and collaborate with colleagues, and students.

Planning Process and Methodology

Breathitt County School District established a technology committee. The committee will meet annually to discuss the existing technology and additional technology needs to the district schools. The needs will be prioritized based on discussions with faculty, staff, administrators and students. The committee will meet to analyze the needs and brainstorm solutions. From these meetings, the technology plan will address the technology goals.

Current Technology and Resources

What works well:
Fiber Connection to all Schools (Wide Area Network)
Phone System (IP Office)
iMac Computer Labs
Data and Wireless Network (Performance and Equipment)
Chromebooks
Toshiba Copiers – Network, email, scanning, etc...
E-stub, PSST, Munis
Website/New Design
School Messenger – School Communication
Infinite Campus
Lexia Reading, Alexus Math, Study Island, Discovery Ed, WIN-KVEC, Follett, CIITS, ISAFE, Munis, Lunchbox, Career Cruising, Edgenuity, etc...
Infinite Campus
Bandwidth
Help Desk Ticket Solution
Needs:
More One to One Devices / BYOD for Students and Staff
Update to Vbrick – TV/Video Distribution

Server Replacements
Battery Backup Replacements
Computer Replacements
More bandwidth to the cloud
Online Assessments
More Intelligent Classrooms – District Wide
Technology Integration Specialist, Technology Staff
More Teacher and Student Instructional Devices
Purchase more end-user devices as needed
More Mounted Projectors (Intelligent Classrooms)
More Professional Development
Improvements to security Systems
Technology Surveys
Back Office Lunchroom Equipment
New Computers (Title I, Instructional Machines, District-Wide): <ul style="list-style-type: none"> • Teacher work stations • Replace old machines.
How do we maintain Technology:
Software Updates
Hardware Upgrades
Purchase New Equipment
Warranty Replacement Parts
Technology Staff Salaries
Normal Repairs
Preventative Maintenance
Hands-On Training
Maintenance Contracts
How do we Train the Staff:
Through internal and external professional development activities.

Training Needs:

Hands-on activities through professional development, technical support, or help desk such as:

- Project Based Learning Strategies
- Office 365/Google Apps/Apple
- Student Information System (Infinite Campus)
- Using Library Management
- Using Renaissance Place Products
- Using Activboards and Projectors (Promethean)
- Using Apple computers and products
- Using Microsoft Office
- New Products
- Vbrick – Video Distribution
- Intelligent Classrooms
- New Email Training (Office 365)
- Online Assessments (CIITS)
- Technology Literacy and Digital Citizenship
- Digital Driver's License
- Dataseam – IMac Training
- BYOD

Curriculum and Instructional Integration Goals

Goal 1

To improve technology accessibility to students and instructional staff.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
To install Intelligent Classroom Equipment	Increase the effective use of instructional technology	Observations	2009-2019	Tech Staff Teachers Principals Contractors	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID
To add and replace end user devices, software, learning materials.	Improved instruction and technology Integration	Inventory	2009-2019	Tech Staff Teachers Principals Contractors	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID

Goal 2

To ensure instructional staff utilizes classroom technology to improve teaching and learning strategies.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Intelligent Classroom Training	Improved instruction and technology Integration	Training Assessments Observations	2009-2019	Teachers Principals Contractors	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID
To explore the possibilities of distance learning and supplemental tools	Increase the effective use of instructional technology	Training Assessments Observations	2009-2019	Teachers Principals Contractors	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID

Curriculum and Instructional Integration Goals – Evaluation

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Students understand technology literacy.	75% of 8 th grade students reach proficient in technology literacy	Teacher Assessment Projects	2009-2019	Teachers	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers use intelligent classroom equipment to integrate technology	75% of teachers have this equipment.	Observations	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Students can use technology and understand technology literacy	Proficiency of technology literacy	Surveys Assessments Observations online resources for technology literacy	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers are integrating technology	Teachers are using Intelligent Classroom Equipment, new email system, and other technology.	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID

Student Technology Literacy Goals

Link to the Program of Studies:

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

Goal 1

To improve student technology literacy in grades Primary – 12.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue Offering Computer Literacy Courses	Improve technology literacy	Observations Assessments	2009-2019	Principals Teachers Librarians TIS	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID
To introduce a new email system to students	Improve technology literacy	Participation	2009-2019	Teachers	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID
Stress the importance of technology literacy and communication	Improve technology literacy Communication	Participation Observations	2009-2019	Teachers	KETS Title I -Federal General Fund PD Funds School Funds ARRA IID

Goal 2

To continue implementing technology standards addressed in the Program of Studies.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Teachers will use standards in their lesson plans	Improve technology literacy Communication	Participation Observations	2009-2019	Principals Teachers Librarians TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID
Students will use technology	Improve technology literacy	Participation Observations	2009-2019	Principals Teachers Librarians TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID

Student Technology Literacy Goals – Evaluation**Action Plan: Strategies/Activities**

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Students understand technology literacy.	75% of 8 th grade students reach proficient in technology literacy	Teacher Assessment Projects	2009-2019	Teachers	Title I -Federal General Fund PD Funds School Funds ARRA IID

Teachers use intelligent classroom equipment to integrate technology	50% of teachers have this equipment.	Observations	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Students can use technology and understand technology literacy	Proficiency of technology literacy	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers are integrating technology	Teachers are using Intelligent Classroom Equipment, new email system, and other technology.	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID

Staff Training/Professional Development Goals

Goal 1

To improve teacher technology proficiency

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Training for software and programs	Increase the effective use of instructional technology More Resources	Observations	2009-2019	Principals Teachers TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID
To provide more resources for technology	More accessibility to technology	Observations	2009-2019	Principals Teachers TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID

Goal 2

Utilize technology more effectively to support classroom instruction

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
To provide new email solution for better communication	Increase the effective use of instructional technology	Participation	2009-2019	Principals Teachers TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID
To install Intelligent Classrooms where funding is available	More accessibility to technology	Observation	2009-2019	Principals Teachers TIS	Title I -Federal General Fund PD Funds School Funds ARRA IID
To provide one to one devices for students where funding is available	Higher student achievement	Test Scores	2009-2019	Tech Staff Principals/Teachers	Title I -Federal General Fund PD Funds School Funds ARRA IID

Staff Training/Professional Development Goals – Evaluation

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Students understand technology literacy.	75% of 8 th grade students reach proficient in technology literacy	Teacher Assessment Projects	2009-2019	Teachers	Title I -Federal General Fund PD Funds School Funds ARRA IID

Teachers use intelligent classroom equipment to integrate technology	50% of teachers have this equipment.	Observations	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Students can use technology and understand technology literacy	Proficiency of technology literacy	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers are integrating technology	Teachers are using Intelligent Classroom Equipment, new email system, and other technology.	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID

Technology Goals

Breathitt County School District wishes to address its technology needs for the future. We want to make sure that our teachers and students have access to technologies that will prepare them for a modern society.

Problem:

1. Technology Infrastructure (Wireless equipment, high-speed networking equipment, high-speed connections to all schools, and internal data wiring)
2. Telecommunications (Voice and data communications, Cellular Service, Email, & Web Services)
3. End-user devices (Purchase and replace computers, laptops, handhelds, printers, projectors, electronics whiteboards and etc...)
 - a. One to One devices for students (when funding is available).
 - a. Develop a Sub-Committee (Digital Learning and Devices)
4. Effective use of technology in the classroom
5. Improvement of technology literacy skills, Integration of Technology into Curricula and Instruction, and Staff Training/ Professional Development Goals

Goal 1

To improve the technology infrastructure in the district as funding is available.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
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To maintain a high speed connection to all schools.	More instructional resources and faster data transfers. Preparation for online testing and new attendance software	Assessment of Bandwidth	7/1/2008-6/30/2023	Technology Staff District Personnel	General Fund USF – E-rate Federal –Title KETS
To upgrade/replace the Wireless Network at all schools and install networking equipment	Use of wireless devices throughout the building	More Accessibility to Technology	6/30/2007-12/2023	Technology Staff	USF – E-rate Federal –Title KETS General Fund
To install/upgrade a Windows Deployment Server/Casper/Apples Servers	To push computer Images across the network with Instructional Software	To help technology integration	1/1/2009-1/1/2019	Technology Staff District Personnel	KETS General Fund
To install/upgrade a Data Protection Manager Server/Azure	To backup critical services and files	Ability to recover important files	1/1/2009-1/1/2019	Technology Staff District Personnel	KETS General Fund
To replace building wiring (Data/Voice)	USF – E-rate Federal –Title KETS General Fund	Improvement of Bandwidth	1/1/2011-1/1/2019	Technology Staff District Personnel	USF – E-rate Federal –Title KETS General Fund
To replace all of the multi-mode fiber.	USF – E-rate Federal –Title KETS	Improvement of Bandwidth	1/1/2011-1/1/2019	Technology Staff District Personnel	USF – E-rate Federal –Title KETS

	General Fund				General Fund
To replace/upgrade all networking equipment/and battery backups.	USF – E-rate Federal –Title KETS General Fund	Improvement of Bandwidth	1/1/2011-1/1/2019	Technology Staff District Personnel	USF – E-rate Federal –Title KETS General Fund
To replace all existing Telephone Systems	USF – E-rate Federal –Title KETS General Fund	Improvement of Communications	1/1/2011-1/1/2019	Technology Staff District Personnel	USF – E-rate Federal –Title KETS General Fund
To install video distribution system	USF – E-rate KETS, General Fund	Improvement of Communications	1/1/2011-1/1/2019	Technology Staff	USF – E-rate KETS, General Fund

Goal 2

To improve the telecommunications service in the district as funding is available.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
To purchase/upgrade a TMG Server. Lightspeed Agent	Promote community service relations and monitor appropriate use of the internet.	More Accessibility to Technology	1/1/2008 – 6/30/2019	Tech Staff	USF General Fund KETS
To replace phone systems and internal maintenance contracts	Improve internal and external communication	Improved Communication	1/1/2008 – 6/30/2019	Tech Staff Teachers Principals TIS	USF General Fund KETS

To purchase and implement a TV Distribution System	To control the intelligent classroom equipment (digital tv).	More Accessibility to Technology	1/1/2008 – 6/30/2019	Tech Staff Teachers TIS	USF General Fund KETS Federal Programs
To purchase and implement an Encyclomedia Server Completed	Effective teaching and learning Strategies	More Accessibility to Technology	1/1/2008 – 6/30/2019	Tech Staff Teachers TIS	Federal Programs
To purchase website/server/service (Web Hosting)	Improve internal and external communication	Improved Communication	1/1/2008 – 6/30/2019	Tech Staff Teachers TIS	USF General Fund KETS Federal Programs
To work with Telecommunications Companies for E-rate services (Telco, data/video distribution, phone systems, internal connections, cellular, web hosting, etc...	Improve internal and external communication	More Accessibility to Technology	1/1/2008 – 6/30/2019	Tech Staff	USF General Fund KETS Federal Programs

Goal 3

To improve end-user devices in the district as funding is available.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
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IDU Replacement (Desktops and Laptops)	Preparations for On-line testing	Inventory Performance	1/1/2006-11/2019	Tech Staff Principals	IDU – State KETS Title I General Fund
To Buy and Replace: Laptops, Computers, and Printers (Mobile Labs) – End User Devices	Preparations for On-line testing Effective teaching and learning	Inventory Performance	1/2009–6/30/2019	Tech Staff Principals Teachers TIS	KETS Title I General Fund School Funds ARRA IID
Installation of electronic whiteboards and projectors. (Intelligent Classroom Equipment)	Support teacher instruction	Inventory Performance	1/2009–6/30/2019	Tech Staff Principals Teachers TIS Maintenance Contractors	KETS Title I General Fund School Funds Federal ARRA IID

Goal 4

To increase the effective use of technology in the classrooms.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Work with schools to provide professional development	Increase the effective use of instructional technology	Formative and Summative Assessments	1/2009-6/2019	Principals Teachers TIS Contractors	KETS PD Funds School Funds Federal

					ARRA IID
Work with schools to provide training for Infinite Campus Software	Increase the effective use of instructional technology	Attendance, grades and reports	1/2009-6/2019	Principals Teachers TIS	KETS General Fund PD Funds School Funds Federal ARRA IID
Work with schools to provide training for Intelligent Classroom equipment	Increase the effective use of instructional technology	Improved test scores	1/2009-6/2019	Principals Teachers TIS Contractors	KETS General Fund PD Funds School Funds Federal ARRA IID
To explore the possibility of getting Renaissance Place, typing program, new website design, library software and other supplement software.		Improved test scores Assessments	1/2009-6/2019	Principals Teachers TIS Tech Staff	KETS General Fund PD Funds School Funds Federal ARRA IID

Technology Goals – Evaluation

Performance Goal 1

To improve technology integration.

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Students understand technology literacy.	75% of 8 th grade students reach proficient in technology literacy	Teacher Assessment Projects	2009-2019	Teachers	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers use intelligent classroom equipment to integrate technology	50% of teachers have this equipment.	Observations	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID

Performance Goal 2

To improve technology literacy.

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
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Students can use technology and understand technology literacy	Proficiency of technology literacy	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID
Teachers are integrating technology	Teachers are using Intelligent Classroom Equipment, new email system, and other technology.	Surveys Assessments Observations Explore the possibility of using online resources for technology literacy assessment	2009-2019	Teachers Principals Librarians	Title I -Federal General Fund PD Funds School Funds ARRA IID

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)
Priority 1			(115,000)			
Priority 2			(300,000)			
Technology					80,000	
				150,000		Federal Programs
TOTAL			(415,000)	150,000	80,000	Total = 230,000 Without E-rate

Budget Summary – Narrative

Salaries, Support, Licenses, etc...

E-rate is recurring and based on funding.

Professional Development Opportunities

Projects could include but not limited to:

- ✓ Intelligent Classrooms Installations
- ✓ Phone Systems
- ✓ End-User Devices
- ✓ Technology Equipment
- ✓ Software/Hardware
- ✓ Etc...

Attachments/Appendices (Optional)