

**Breckinridge County School District
Technology Plan: 2016-2017
Hardinsburg, Kentucky**



<http://breck.kyschools.us>

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Executive Summary

Summary: It is the belief of the Breckinridge County School District that students must use and be introduced to the latest technologies in order to become life-long learners in the 21st century. Because parents must play a role in their child's education, communication systems are in place to keep parents informed of school events. These systems include electronic newsletters delivered through a parent information site. This site allows parents to register to receive notifications from their selected schools as well as important information that applies district wide.

Goal: It is the district's goal to provide technology tools for students and teachers to enable the greatest amount of learning possible to occur while still keeping within budget constraints. Security and student safety must also be considered when deciding on access to not only the Internet, but computer systems.

Needs: Because the lifecycle of most technology hardware is normally five years, hardware must be replaced on a rotating basis. This not only applies to student and teacher computers, but networking appliances such as servers, switches and access points. As new software is identified or upgrades are available for existing software, decisions must be made on these purchases.

Priorities: Over the past three years, emphasis has been given to computers. Current priorities now are focused on the networking infrastructure upgrades. With the advent of Windows 7, computers that cannot handle this OS must also be replaced.. Another point of emphasis under this plan is total replacement of network components in the high and middle schools. This includes new switches and access points in all locations. When filing for Erate the district utilized the alternative discount mechanism, which has resulted in the district acquiring a 90% discount rate. All upgrades are contingent upon Erate funding.

Solutions:

1. Identify technologies to enhance student learning.
2. Plan professional development for staff to best use available technologies.
3. Assist in the efficient day-to-day operation of district facilities.
4. Identify emerging technologies that will benefit students and staff performance.
5. Identify ways to develop applications to benefit students and staff.
6. Plan for the replacement of old technologies.
7. Create/comply with standards ensuring integration of all devices on the district network.

Technology Vision and Goals

Technology has quickly evolved to the point where it is “mission critical” for students in grades K-12. A stable and consistent connection is a necessity for business as usual in today’s schools. Ensuring that equipment is maintained and replaced in a timely manner while practicing financial responsibility is essential in today’s economic climate. To do this it is necessary to actively manage all network equipment from the core router to student and teacher workstations, along with the ever increasing addition of tablet devices.

Goal 1

To maintain current hardware inventory and upgrade/replace outdated hardware inventory.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Maintain current hardware inventory through the use of WSUS, EPO and FOG.	Servers and computers that have not met the end-of- life cycle will operate effectively and efficiently to enhance student education.	Monitoring systems currently in place will be reviewed on a daily, weekly or monthly basis as needed to identify potential problems.	Conducted throughout the year.	CIO Assistant DTC School Techs	KETS State/General Fund Funds

Goal 2

More efficient and creative methods of managing the variety of both personal and district devices must be researched and implemented. Smartphones, tablets, and other devices are today’s reality and they require outside the box ideas to utilize them.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Managing solutions for the variety of BYOD’s and district equipment that will allow maximum utilization for the educational process.	A wider variety of technology in student hands will lead to increased opportunities for learning.	A 10% increase in devices available to students as documented by records on network management solutions.	Fall 2016/Spring 2017	CIO Assistant DTC	KETS Erate/State/General Fund Funds

Student Technology Literacy Skills

The Internet as a learning tool is firmly embedded in today's academic environment. It is essential that students can distinguish between credible and non-reliable sources as well as understand the dangers of cyber-bullying and harassment. Providing students with the tools to recognize potential hazards is essential as the education process utilizes more and more Web 2.0 tools.

Goal 1

Utilize various resources to ensure students have the necessary skills to both be safe and effectively utilize Internet resources.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Gain awareness of the dangers of online predators. Common Sense Media materials will be utilized.	Students will learn skills and strategies that will minimize the potential they will fall victim to online abuse.	Online assessments Classroom observation	Ongoing	Teachers Curriculum Specialists CIO	State/General Fund Funds
Increased knowledge on cyber-bullying.	Students will utilize classroom instruction and online programs to achieve certification in digital citizenship.	Certification tests.	Conducted throughout the year	Teachers Principals Curriculum Specialists	State/General Fund Funds

Goal 2

To have students technologically proficient by the end of their 8th grade year.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Use various computer programs to enhance learning.	By allowing the students to use Office programs and other relevant software programs, proficiency will be obtained.	Staff will observe students as they use the various programs and will make on-the-spot corrections.	Conducted throughout the year	District Administrators Curriculum Specialists School Administrators Teachers	State/General Fund Funds
Allow access to Internet for research resources.	By allowing students access to Internet resources, they will further understand the benefit in using this technology tool. The web filter will be monitored on a daily basis to assure students remain in compliance with NCLB and Erate.	In accordance with the AUP, staff will monitor students as they use the Internet. Additionally, web logs will be periodically reviewed for questionable Internet sites.	Conducted throughout the year	District Administrators Curriculum Specialists School Administrators Teachers	State/General Fund Funds

Integration of Technology into Curricula and Instruction

Goal 1

Emphasize use of technology in instruction

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Increase use of teacher webpages.	Teachers will increase the use of their webpages for student and parent communications and involvement.	Increases will be gauged by	Conducted throughout the year	District Administrators Curriculum Specialists School Administrators Teachers	State/General Fund Funds KETS E-Rate

Goal 2

BYOD Pilot

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Increase use of student owned technology.	Allowing students to utilize their existing technology will result in increased learning opportunities.	Currently two schools are involved. The goal is to add two schools.	2016-2017 School year	CIO Asst DTC District Administrators Curriculum Specialists School Administrators Teachers	State/General Fund Funds KETS

Staff Training/Professional Development Goals

Goal 1

To ensure staff uses SuccessMaker, Infinite Campus, and other district resources such as MS Office and Lync to the fullest extent possible. The CIO/DTC will be made available for group and/or individual staff training to use the software. The district will be responsible for providing training to integrate the software for individual school and/or district educational goals.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
One day initial training for each teacher.	Teacher will understand how to properly use SM, Infinite Campus, MS Office, and Lync.	Curriculum Specialists and school administrators will validate teacher knowledge during classroom visits	Prior to the beginning of school and district PD mini-sessions.	SM Coordinator Curriculum Specialists District Technology Staff	State/General Fund Funds
Follow up training through mini-sessions.	Attendees will discuss program problems identified during use.	Curriculum Specialists and school administrators will validate teacher knowledge during classroom visits	As needed basis	AR Coordinator Curriculum Specialists School Administrators	State/General Fund Funds

Goal 2

To ensure staff are using other technology resources to the fullest extent that will enhance teaching abilities.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Classroom walk-throughs.	Teachers are given feedback both verbally and in writing on techniques that are acceptable and ones that need to be fine-tuned.	Curriculum Specialists and school administrators will validate teacher knowledge during classroom visits	August 2016-May 2017	District Administrators Curriculum Specialists School Administrators	State/General Fund Funds
Utilizing technology based instructional resources.	Through collaborative and traditional resources, teachers will gain proficiency in best practice instructional practices.	Walk-through data will demonstrate more effective use of technology resources	August 2016-May 2017	District Administrators Curriculum Specialists School Administrators	State/General Fund Funds

Current Technology and Resources

Status: The district currently meets or exceeds the following levels:

1. All schools have at least a three-to-one student to computer ratio.
2. All classrooms have a telephone and at least one computer with Internet and email access.
3. All schools are connected to the district computer network via fiber connections.
4. All student/staff workstations are equipped with productivity software, Internet browsers and antivirus software.
5. Each classroom has an overhead projector and screen for use during instruction.
6. The district is attempting to automate as many time consuming tasks as possible to free-up staff for more important issues.

Status: The district currently needs to plan on the following upgrades:

All of the technology assets in the district will eventually meet the end of life cycle replacement. For this reason the district will attempt a yearly 20% replacement of all assets. This year emphasis will be placed on switch and access point replacement, however all of the below items will be considered.

1. Servers (moving toward a virtualized environment)
2. Workstations (both student, teacher and administrative positions)
3. Laptops (both student, teacher and administrative positions)
4. Wireless Access Points

Evaluation

Performance Goal 1

The district technology staff will review and evaluate the level of and quality of technology services provided by the district on a yearly basis. The following tools and information will be used but not limited to:

1. Snapshots of the district/school computer networks to determine usage.
2. Yearly review of student/staff Acceptable Use Policies.
3. Student/Staff surveys.
4. Audit student schedules
5. Standardized test results.
6. Professional development logs.
7. Reviewing Service Requests for possible training needs.

This plan will be revisited as often as needed to ensure accuracy and to make sure the goals are being met. The CIO, Asst. Superintendent in charge of instruction, and the Superintendent will revise the plan as needed based on new or emerging technologies or educational needs. The revised plan will be evaluated by the Kentucky Department of Education assigned regional representative.

Budget Summary

The technology budget comes from local funds, Kentucky Education Technology System (KETS) funds, federal programs, and occasional grants. Likewise, the district depends heavily on the Federal Universal Service Fund (ERATE) for assistance with funding telecommunication costs and Internet access on an annual basis. Specific funding needs have been cited in previous sections for the acquisition and maintenance of hardware and software, personnel, and for professional development.

Annual Budget Summary

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Tech Budget)	Total
KETS Workstations (desktops and laptops)					\$ 40,000.00	\$ 40,000.00	\$ 80,000.00
KETS Servers						\$	\$
KETS Switches			\$ 93,517			\$ 16,502	\$ 110,019
Wireless Access Points			\$ 98,290			\$ 16,254	\$ 114,544.00
Technology PD						\$ 2,700.00	\$ 2,700.00
Update SM						\$ 40,000.00	\$ 40,000
Peripheral Devices Interactive Classroom Technology						\$ 10,000.00	\$ 10,000.00
Maintenance						\$ 15,000.00	\$ 15,000.00
License Purchase/Renewals (McAfee, Office, CAL, etc.)						\$ 12,000.00	\$ 12,000.00
Telephone/Long Distance/PBX							
Salaries						\$ 279,000.00	\$ 279,000.00
Misc Software						\$ 5,000.00	\$ 5,000.00
Internet Connection (Leased Fiber)			\$ 48,000.00			\$ 12,000.00	\$ 60,000.00
TOTAL	\$ -	\$ -	\$ 340,180.00	\$ -	\$ 40,000.00	\$ 384,420.00	\$ 764,600.00