

Technology Plan:
Grayson County Schools
Leitchfield, Kentucky



<http://www.education.ky.org/>

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Acknowledgments

District Technology Staff

Charlie Crain, CIO

Jerrod Graybeal, COS

Additional District Contributors

Barry Anderson, Superintendent

Doug Robinson, Principal

Jim Blain, Principal

Gwen Lucas, Principal

Ronnie Sarver, Principal

Marcia Downs, Principal

Eddie Chambers, Principal

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Executive Summary

Facing the challenges of educating the 21st Century learner, Grayson County strives to stay on the cutting edge in Technology. By building and maintaining a strong infrastructure, as well as staying ahead of continually changing standards, the challenge is in advancing with the technology and education industry simultaneously. With the need of 500+ employees and 4,200 students, advances are being made to prepare students and staff to face the changing world and to be prepared for the challenges in the next decade and beyond.

The days of the technology being left in the classrooms are fading away. With interactive classrooms in every school the students are being able to interact with the technology on a new level. In Winter of 2008, we moved to the next generation student information system. Staff and parents will have real-time access, both on campus and from home, to student information. With the migration to web-based applications, students now have the ability to continue their learning from home

With the advances in technology that our students and employees are experiencing, it requires the support of the Technology Department in cooperation with the administration and staff, as well as the students and parents. Being able to advance in these areas will determine the success of this technology plan.

Planning Process / Methodology

Our District Technology Committee meets throughout the school year to define and develop our District Technology Plan. There are also site based technology committees that meet at the school level regularly to establish their goals and objectives to correlate with the District's vision. We are continually assessing our technology and professional development to ensure that we are staying inline with the standards for students and teachers.

Technology Vision and Goals

In an age of information, telecommunications plays a vital role in the ongoing operations of all business operations in public and private enterprises. Various forms of communication are imperative between parents, educators, support personnel, emergency systems, and other contacts to insure appropriate instruction for all students.

The Internet, email, and curriculum enforcing software are vital to student success in today's schools. These tools offer sources for research and communication that exceed the limitations of the traditional classroom. Such instruments of educational, professional, and personal growth must be made widely accessible to all students and staff.

Goal 1

Provide students and staff with a state of the art telecommunication infrastructure that is convenient and non-intrusive in nature to the learning environment. This infrastructure should allow access for/to convenient communication, information resources (Internet, curriculum based courseware, etc), and encourage distance based learning in a less restrictive environment to broaden the experiences of all students in a more inclusive manner.

Action Plan: Strategies/Activities (Optional)

Strategy/Activity	Instructional Outcome	Begin Date	End Date	Cost	Funding Source
Maintain current line access (POTS) and long distance service available to classrooms, school offices, and administrative offices (increasing access where needed).	Telecommunications among students, guardians, staff, and emergency services will not be confined by district oversight. Line utilization statistics will be monitored.	07/09	06/10	\$47,000	USF + General Funds
Cellular phones/pagers will be maintained or distributed to administrators and key support personnel that maintain a wide area of service	Support staff will be more readily available for emergency and nonviable services leading to fewer interruptions and improved instruction. Will be gauged by staff feedback.	07/09	06/10	\$4849.52	USF + General Funds
Maintain our existing Fiber Optic High Speed network	Students and staff will maintain existing services to the Internet and network resources including but not limited	07/09	06/10	\$75,600	USF + General Funds

	to: email, curriculum courseware, file sharing and printer services. Will be determined by students and staff.				
Obtain maintenance agreements on all core network components. (Pending USF approval)	Network services aiding in the education process will be more reliable. Service response time and downtime is guaranteed by maintenance agreement.	07/09	06/10	\$5290.40	USF + General Funds

Goal 2

Provide a fast and reliable data infrastructure to promote learning in a virtual environment. This infrastructure will be flexible enough to reach all students and their individual needs without compromising the security and stability of the network, the data on the network, and the users that attach to the network.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Begin Date	End Date	Cost	Funding Source
Provide a fast, switched port for every workstation and available ports for anticipated growth. (Pending Statewide Budget)	All workstations will be connected to a high-speed, switched network port to allow robust access to network services.	07/09	06/10	\$120,338.81	USF + General Funds + KETS Funds + Construction Funds
Procure maintenance agreements on current and newly purchased wired network switches and wireless network switches. (Pending USF approval)	Reliability of the schools networks will increase and downtime will decrease as malfunctioning equipment can be replaced or serviced with greater ease.	07/09	06/10	\$2089.68 All existing non-core wired switches are covered by manufacturer warranty.	USF + General Funds
Provide modern wired data connection to all computers.	All workstations will be allowed connection to a high-speed data network to allow robust access to network services.	07/09	06/10	\$152,000	USF + Construction Funds + General Funds
Provide modern	Communication among	07/09	06/10	\$37,270.62	USF +

phone system and equipment.	school educators, parents, and other persons aiding in the education process will be available.				Construction Funds + General Funds
Provide wireless coverage to allow for complete mobility of wireless devices. (Pending USF approval)	Network services will be accessible to students and staff that require special accommodations for accessibility and help teachers escape the confines of the typical classroom without loss of network services.	07/09	06/10	\$12,848.23	USF + Construction Funds

Staff Training/ Professional Development Goals

The district will continue to provide all school personnel with a variety of professional development opportunities to support instructional improvement and overall efficiency. The robust staff development program will facilitate and evaluate the relevant use of current and new technologies with the highest standards of professionalism and training in order to empower our staff to embrace technology as a tool that can be utilized effectively across the curriculum and/or in their daily job tasks. Various forms of professional development will be provided to help the exceptions of the state's Teacher Technology Standard 6.

Teachers are required to acquire four days of Professional Development throughout the year. There is ample technology training available in forms of the KTLC, KATC, and LMS conferences as well as many locally hosted sessions. The principals will monitor the integration of technology in the classroom. Staff will also be provided training in technology-based measurement of student progress.

Current Technology and Resources

The Grayson County Schools has employed numerous technologies to remain on the forefront of 21st Century technology. We currently have 1300 workstations in our schools. Spread across our six schools we have twelve fixed computer labs. In addition to those fixed labs our high school and middle school each have a mobile lab. Our middle school is also in the process of delivering a laptop to every teacher.

Grayson County Schools is integrating more multimedia into the classroom by increasing the number of fixed data projectors in our facilities. Approximately twenty percent of our classrooms have fixed projectors. Many of these rooms also have dedicated digital whiteboards. In conjunction with the fixed projectors, all of the schools have mobile projectors. Also, all of our schools have at least one mobile digital whiteboard.

Evaluation

Providing a fast and reliable conduit for information is vital to the use of technology in education. The District must be able to assess that the infrastructure is meeting the needs of the users and modify accordingly for new technologies.

Network traffic is monitored regularly to benchmark currently utilization. As part of the monitoring, traffic is analyzed by source and types of data as it traverses the network.

Technical staff is then able to determine what modifications, if any, need to be made.

The Technology Department tracks service outages and their sources. This information is then analyzed by the Technology Department and/or senior administration.

Lab and United Streaming utilization also provides us with useful information. United Streaming usage is tracked by available reports. This information can be compared with equipment lists to determine if a user has need for equipment or training. Fixed and mobile lab logs are monitored to insure all students are being reached.

Feedback is also received from administrators, teachers, and students. Local school administrators are the first to measure use of technology in the classroom. They acquire this information by reviewing lesson plans, teacher evaluation, and eWalk walkthroughs. Teachers' input through school and district technology committees is a primary source for identifying need. Teachers and students also provide input by completing student and staff surveys.

Budget

The technology budget comes from local funds, KETS funds, federal programs (i.e. Title IID), and occasional grants. These funds are also supplemented through the budgets of individual schools and other departments. Likewise, the district depends heavily on the federal Universal Service Fund for assistance with funding telecommunication costs, Internet access, and internal connections 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. In addition to these items, the district also has a maintenance department that provides indirect support to the technology department by installing and maintaining electrical lines, air conditioning, construction of server closets, etc.

**School Year: 2009-2010
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)
Replace Outdated Student Workstations					\$20,000	Local \$30,000 Special Ed \$20,000
Replace Outdated Staff Workstations					\$20,000	Local \$20,000
Maintain Voice Services			\$36,900			Local \$13,500
Maintain Fiber Backbone			\$58,266.43			Local \$17,333.57
Maintain Layer 3 Switch			\$4077.11			Local \$1213.29
Maintain Fast, Stable Internal Data Infrastructure			\$93,550.27		\$11,154.31	Construction \$15,629.23
Provide Complete Wireless Coverage in Schools			\$9737.93			Construction \$3110.30
Provide Ongoing Training for Staff		\$2840		Title I \$140,000 Rural & Low Income		FFF \$89,000 Safe Schools \$1500

				\$7000		Special Ed \$20,000
Clarkson Data Wiring			\$112,203.89			Construction \$36,796.16
Intelligent Classrooms					\$30,000	Local \$20,000 Construction \$200,000
Clarkson Phone System			\$17,225.51			Construction \$20,045.11
Tech Staff						Local \$260,000
TOTAL		\$2,840	\$334,961.09	\$147,000	\$81,154.31	\$752,498.43

