

Technology Plan:
Grayson County Schools
Leitchfield, Kentucky



<http://www.graysoncountyschools.com/documents/techplan.pdf>

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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

Strategy/Activity	Instructional Outcome	Begin Date	End Date	Cost	Funding Source
Procure maintenance agreements on all phone systems.	Communication among school educators, parents, and other persons aiding in the education process will be more reliable. Service response time and downtime is guaranteed by maintenance agreement.	07/07	06/08	\$2118.74	General Funds
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.	07/07	06/08	\$36,000	USF + General Funds
Cellular phones/pagers will be maintained or distributed to administrators and key support personnel that maintain a wide area of	Support staff will be more readily available for emergency and nonviable services leading to fewer	07/07	06/08	\$3235	USF + General Funds

service	interruptions and improved instruction. Will be gauged by staff feedback.				
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 to: email, curriculum courseware, file sharing and printer services. Will be determined by students and staff.	07/07	06/08	\$72,600	USF + General Funds
Upgrade WAN to provide high-speed, fiber connectivity to all sites. Layer 3 switch will be needed to provide routing. (Pending USF approval)	a)Distance learning will be improved by means of streaming video and interactive video conference classrooms. b)Line access costs will be reduced, internal communications will be increased, and efficiency and accuracy of voice communications will improve by the implementation of an IP phone system.	Done	Done	(51,117.69)	USF + General Funds
		07/08	06/09	Tentative	Tentative
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.	07/07	06/08	\$6600	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
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Provide a fast, switched port for every workstation and available ports for anticipated growth. (Pending USF approval)	All workstations will be connected to a high-speed, switched network port to allow robust access to network services.	07/07	06/08	\$135,454	USF + General Funds
Procure maintenance agreements on current and newly purchased 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.	07/07	06/08	All existing non-core switches are covered by manufacturer warranty.	USF + General Funds
Provide adequate uninterruptible power to all network switches. (Pending USF approval)	Increase in stability of school networks and greater data integrity.	07/07	06/08	\$8625	USF + 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.	07/07	06/08	\$112,091	USF + General 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 X.

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 key 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.

Annual Budget Summary

School Year 2007-2008

Note: duplicate this page for each year as needed

- List the professional development and technologies to be acquired during each year of the agency’s plan.
- 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.

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						IDU \$160,000
Replace Outdated Staff Workstations					\$60,000	Local \$40,000
Maintain Voice Services			\$29,215			Local \$10,800
Maintain Fiber Backbone			\$53,035			Local \$19,600
Maintain Layer 3 Switch			\$4,950		\$1,830	
Maintain Fast, Stable Internal Data Infrastructure			\$105,205		\$5,000	Local \$33,700
Provide Complete Wireless Coverage in Schools			\$82,700		\$12,000	Local \$17,500
Provide Ongoing Training for Staff		\$3,200		Title I a \$20,000 Rural & Low Income \$20,000		FFF \$89,000 Safe Schools \$2,000 Special Edu \$10,000
Expand Multimedia Services and Hardware		\$4,000		\$15,000	\$10,000	Local \$7,000

Tech. Staff						Local \$256,000
TOTAL		\$7,200	\$275,105	\$55,000	\$88,830	\$645,600