

FIVE-YEAR STRATEGIC PLAN 2005-2010

Annual Update 2007

E-rate Funding Year 2008-2009

BERKELEY COUNTY SCHOOLS BERKELEY COUNTY BOARD OF EDUCATION

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"Good plans shape good decisions.
That's why good planning helps to make elusive dreams come true."
Lester R. Bittel, *The Nine Master Keys of Management*

Technology Plan

Submitted by - dlk04001 2007-09-12 06:27:42.0

E-rate Year 2008-2009

Federal Compliances

Federal/State Compliances listed below must be addressed in the county/school plan.

Technology -01 – USING TECHNOLOGY EQUIPMENT/INFRASTRUCTURE FOR EQUITABLE ACCESS TO 21ST CENTURY TECHNOLOGY TOOLS

List one or more activity/strategy that describes how the county/school will budget for and use the technology equipment/infrastructure that supports the acquisition of twenty-first century skills. The action steps should ensure that the capabilities of the technology infrastructure are adequate for acceptable performance of the technology being implemented in the public schools.

Technology 02 - TECHNOLOGY INTEGRATION FOR 21ST CENTURY SKILLS/STUDENT ACHIEVEMENT

List one or more activity/strategy that focuses on using technology to improve achievement of all students with special emphasis on high need and high poverty students. The strategies/action steps should include how 21st century tools and skills will allow students to access information, solve problems, communicate clearly, make informed decisions, acquire new knowledge, construct products, reports and systems and access online assessment systems.

Technology 03- PROVIDING COLLABORATION/COMMUNICATION TOOLS (TELECOMMUNICATIONS NETWORK/EMAIL)

List one or more activity/strategy that describes how the county/school will ensure that the use of telecommunications and internal connections in the schools will enhance student learning. The action steps/strategies should ensure sufficient bandwidth to support teaching and learning and to provide satisfactorily for instructional management needs.

Technology 04- INCREASED ACCESS FOR STUDENTS AND TEACHERS TO 21ST CENTURY TOOLS

List one or more activity/strategy that describes how the county/school will provide increased access to technology for students and teachers. .

Technology 05 – DELIVERY OF 21ST CENTURY CONTENT THROUGH DISTANCE LEARNING

List one or more activity/strategy that describes how the county/school will use innovative strategies (e.g., distance learning) to provide for an effective model for the distance delivery or virtual delivery of instruction in subjects where there exists low student enrollment or a shortage of certified teachers or where the delivery method substantially improves the quality of an instructional program (e.g., WV Virtual School).

Technology 06- 21ST CENTURY PARENT/COMMUNITY/PARTNERSHIP COLLABORATION

Include strategies for promoting collaboration with various partners including parents, community organizations, higher education, schools of colleges and universities, employers and content providers.

Technology 07- PROFESSIONAL DEVELOPMENT FOR 21ST CENTURY INSTRUCTION

Include professional development activities for using the telecommunications network for training teachers and administrators to improve the integration of technology. Include strategy(ies) (e.g., technology integration specialists). to provide ongoing support and assistance to teachers in integrating technology into twenty-first century instruction.

Technology 08- MAINTENANCE AND REPAIR OF 21ST CENTURY TOOLS

List one or more activity/strategy that describes how the school/county will implement, support, maintain and repair all computer equipment and internal connections.

Technology 09- ADULT LITERACY

List one or more activity/strategy that describes how the school/ county will collaborate with adult literacy providers when appropriate.

Narrative Summary

The county and school technology plans provide a description of how the county and schools plan to allocate adequate resources to provide students with equitable access to 21st century technology tools, including instructional offerings and appropriate curriculum, assessment and technology integration resources aligned to both the content and rigor of state content standards as well as to learning skills and technology tools. The plans include the various technologies that enable and enhance the attainment of 21st century skills outcomes for all students. How we plan for technology in our county and schools is based upon the validation from research-based evaluation findings from previous West Virginia-based evaluation projects.

In addition, through the technology planning process, the county and schools continue to study and include emerging technologies for application in a twenty-first century learning environment. The purchase of technology through state contracts provides for uniformity in technological hardware and software standards and procedures. State provided anti-virus protection software helps to ensure network security and integrity. Expanded bandwidth, along with additional local, state and federal funding, provide increased ability for the county to ensure that the

capabilities and capacities of the technology infrastructure are adequate for acceptable performance of the technology being implemented in the public schools. As an additional benefit, the county and schools enjoy the opportunity to purchase from state contracts that allow us to be able to take advantage of appropriate bulk purchasing abilities and to purchase from competitively bid contracts.

An added benefit for our county and school data collection and reporting to the Department of Education and to the federal government is WVEIS, the state-provided comprehensive statewide uniform integrated education management and information system. Also developed by WVEIS, the online county and school's technology plan's structure allows flexibility to adjust the plan based on developing technology, federal and state requirements and changing local school and county needs. The online county and school technology plans are developed in compliance with United States Department of Education regulations and Federal Communications Commission requirements for federal E-rate discounts. The county and schools also continue to seek applicable federal government funds, philanthropic funds, and other partnership funds (or any combination of these types of funds) to augment state appropriations and encourage the pursuit of funding through grants, gifts and donations.

Some technology initiatives in schools and counties may not be adequately addressed in the goals/objective/strategy section of the technology planning section. The county and school narrative allow planning teams to structure a framework/narrative description to describe how the county and schools will allocate adequate resources to provide students and teachers to twenty-first century technology tools,

Technology Needs Assessment

The district Digital Divide Survey shows that 47.8% of all computers are Windows XP. We need to replace all Windows 3.1, 95, 98 and 2000 computers in the next five years concentrating first on replacing Windows 98 and lower computers.

Action Steps

Technology 01-Using Technology Equipment/Infrastructure for Equitable Access to 21st Century Technology Tools

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/1: Provide 21st century hardware and a stable, state of the art 21st century infrastructure for the effective use of technology.

- 01 - Purchase technology hardware as needed to support curricular, administrative, and communication needs
- 02 - Identify and replace Windows 2000 and older computers
- 03 - Upgrade/replace Windows 2000 servers with Windows 2003 server NOS

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose To increase technology integration and improve student achievement

Persons Responsible
Technology staff

Target Audience All schools

Federal Compliances Technology
01-Using Technology Equipment/Infrastructure for Equitable Access to 21st Century Technology Tools

Technology 02-Technology Integration for 21st Century Skills/Student Achievement

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/2: Focus on 21st century technology tools and resources that improve achievement of all students with special emphasis on high need and poverty students.

- 01 - Transition from Compass to Odyssey software in selected schools
- 02 - Utilize Compass Odyssey, SchoolKit, Plato, Rosetta Stone and similar software to target identified student

deficiencies in basic skills.

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose Use technology tools to improve student achievement	Persons Responsible School and county staff	Target Audience All Students
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Federal Compliances Technology
02-Technology Integration for 21st Century Skills/Student Achievement

Technology 03-Providing Collaboration/Communication Tools (Telecommunications Network/Email)

Plan Section Technology

Associated Goals/Objectives Technology **Associated High Yield Strategies** None

Action Step TECH/3: Ensure a robust internal communications network

- 01 - Provide cellular, paging, local/long distance telephone service to all schools and administrative offices
- 02 - Provide funding to install, repair or replace network cabling as needed.
- 03 - Provide funds for each school to access the internet and WVEIS on highband circuits.
- 04 - Upgrade network electronics to provide a minimum 100 MB switched connectivity to the desktop
- 05 - Upgrade existing copper backbones between wiring closets to 1 GB fiber.
- 06 - Connect all portable classrooms to the main building using copper, fiber, or wireless switched connections.
- 07 - Request discounts for local telephone service, 300 Existing lines and up to 5 new lines
- 08 - Provide additional T1 lines as necessary to improve bandwidth
- 09 - Request discounts for High Band Services - 42 Existing T-1's and up to 2 new T1's or 100 M/b's connectivity between all buildings
- 10 - Request discounts for Cellular Service - 265 Existing cellular lines and up to 10 new lines and up to 10 Electronic Portable Devices
- 11 - Request discounts for Web Hosting to serve up to 17,000 users
- 12 - Request discounts for Internet Access - Up to 10 Electronic portable devices

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose To improve communication, provide access to the internet (standards based lesson plans and digital resources) and access to WVEIS	Persons Responsible Technology staff	Target Audience All schools
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Federal Compliances Technology
03-Providing
Collaboration/Communication Tools
(Telecommunications Network/Email)

Technology 04-Increased Access for Students and Teachers to 21st Century Tools

Plan Section Technology

Associated Goals/Objectives Technology **Associated High Yield Strategies** None

Action Step TECH/4: Provide increased access for student and teachers to 21st century tools and resources.

- 01 - Provide Windows XP computers to schools in order to increase the percentage of computers at that level.
- 02 - Install and maintain Windows XP computer labs in each school
- 03 - Purchase and promote the use of assistive technology devices for students
- 04 - Provide interactive white boards, laptops and data projectors to classrooms as funding permits.

Projected Begin	Projected End Date	Actual Begin Date	Actual End
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Date	June 30, 2010	?	Date
	July 1, 2007		?
Purpose	To improve the integration of 21st century tools and resources across the curriculum to provide rigor, enhance learning and improve student achievement	Persons Responsible	Target Audience
	Technology staff		Students, teachers, and administrators
		Federal Compliances	Technology 04-Increased Access for Students and Teachers to 21st Century Tools

Technology 05-Delivery of 21st Century Content through Distance Learning

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/5: Utilize innovative strategies for providing rigorous and specialized courses that may not be available without the use of 21st century tools and resources

- 01 - Ensure that all students in the county have access to the WV Virtual School classes
- 02 - High school and middle school students will use PLATO software aligned with CSO's for remediation and/or acceleration.

Projected Begin Date	Projected End Date	Actual Begin Date	Actual End Date
July 1, 2007	June 30, 2010	?	?

Purpose	Persons Responsible	Target Audience
To provide rigor, enhance learning, improve achievement	Technology staff/teachers/administrators	Students

Federal Compliances Technology
05-Delivery of 21st Century Content through Distance Learning

Technology 06-21st Century Parent/Community/Partnership Collaboration

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/6: Promote parental involvement and improved collaboration with community/home through the use of 21st century tools and resources

- 01 - Use district web site as a means of communicating with students, staff, parents and community members
- 02 - Provide support for school and departmental web sites on the district web server.
- 03 - Use district Listservs as a means of communication with county staff, school staff, parents and community members.

Projected Begin Date	Projected End Date	Actual Begin Date	Actual End Date
July 1, 2007	June 30, 2010	?	?

Purpose	Persons Responsible	Target Audience
To improve communication and parental/community involvement	Technology staff/teachers/administrators	All stakeholders

Federal Compliances Technology
06-21st Century Parent/Community/Partnership Collaboration

Technology 07-Professional Development for 21st Century Instruction

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/7: Provide professional development for using the telecommunications network for training teachers and administrators to improve the integration of 21st century tools and resources.

- 01 - Train teachers in the effective use of 21st century tools and resources in support of the Tools for Schools state initiatives
- 02 - Teachers, administrators, and classroom aides will participate in training regarding 21st century tools and resources and effective technology integration through the use of the Berkeley County Cyberschool (How to Master) system.

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose To provide rigor, enhance learning, improve achievement

Persons Responsible Technology staff

Target Audience Teachers, administrators

Federal Compliances Technology
07-Professional Development for 21st Century Instruction

Technology 08-Maintenance and Repair of 21st Century Tools

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/8: Maintain and repair all computer equipment and internal connections.

- 01 - Ensure that schools standardize the maintenance and repair of telecommunications network through the use of Deep Freeze, Symantec AV and Windows updates.
- 02 - Maintain web-based reporting system for schools to report maintenance requests for technology
- 03 - Use the Tools for Schools initiative help lines to provide maintenance for all computers under warranty and use RESA for other computer maintenance.

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose To provide a stable and robust 21st century learning environment

Persons Responsible Technology staff, RESA staff, vendors

Target Audience All stakeholders

Federal Compliances Technology
08-Maintenance and Repair of 21st Century Tools

Technology 09-Adult Literacy

Plan Section Technology

Associated Goals/Objectives Technology

Associated High Yield Strategies None

Action Step TECH/9: Collaborate with adult literacy providers

- 01 - Cooperate with Adult Literacy providers to share technology resources in support of adult learning
- 02 - Provide hardware and software support to the Berkeley County Schools' department of adult and community education.

Projected Begin Date July 1, 2007	Projected End Date June 30, 2010	Actual Begin Date ?	Actual End Date ?
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Purpose To improve the use of 21st century tools and resources

Persons Responsible Technology staff, adult literacy providers

Target Audience All stakeholders

Federal Compliances Technology

E-rate Budgets

Funding Source	Year		Annual	Disc% Commit	County Match
E-rate funds	2008	Bundled Voice/Long Distance	142,132.00	83,858.00	58,274.00
		Cellular	74,176.00	43,764.00	30,412.00
		Data Lines	174,000.00	105,000.00	69,000.00
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	0.00	0.00	0.00
		Paging	0.00	0.00	0.00
		Voice	0.00	0.00	0.00
		WAN	0.00	0.00	0.00
		Web Hosting	12,000.00	9,000.00	3,000.00
		E-rate Totals	385,148.00	227,237.00	157,911.00

TFS/Elementary E-rate Application	2008	State Totals - Elementary TFS	0.00	0.00	0.00
		State Totals - TFS/Elementary	0.00	0.00	0.00
TFS/Secondary E-rate Application	2008	State Totals - TFS/Secondary	0.00	0.00	0.00

Funding Source	Year		Annual	Disc% Commit	County Match
E-rate funds	2007	Bundled Voice/Long Distance	142,131.00	83,857.79	58,274.05
		Cellular	74,176.00	43,764.03	30,412.29
		Data Lines	168,840.00	99,615.60	69,224.40
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	0.00	0.00	0.00
		Paging	0.00	0.00	0.00
		Voice	0.00	0.00	0.00
		WAN	0.00	0.00	0.00
		Web Hosting	0.00	0.00	0.00
		E-rate Totals	385,148.00	227,237.42	157,910.74

TFS/Elementary E-rate Application	2007	State Totals - Elemenary TFS	0.00	0.00	0.00
		State Totals - TFS/Elementary	0.00	0.00	0.00
TFS/Secondary E-rate Application	2007	State Totals - TFS/Secondary	0.00	0.00	0.00

Funding Source	Year		Annual	Disc% Commit	County Match
E-rate funds	2006	Cellular	74,296.32	45,320.76	28,975.56
		Data Lines	168,840.00	102,992.40	65,847.60
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	12,000.00	7,320.00	4,680.00
		Paging	0.00	0.00	0.00
		Voice	128,731.84	78,526.42	50,205.42
		WAN	0.00	0.00	0.00
		Web Hosting	0.00	0.00	0.00

E-rate Totals		383,868.16	234,159.58	149,708.58
State Basic Skills E-rate Application 2006 State Totals - BS/CE		0.00	0.00	0.00
State SUCCESS E-rate Application 2006 State Totals - SUCCESS		0.00	0.00	0.00

Funding Source	Year	Annual	Disc%	Commit	County Match
E-rate funds	2005 Cellular	60,880.08		37,136.85	23,743.23
	Data Lines	177,615.00		108,345.15	69,269.85
	Internal Conn Maint	0.00		0.00	0.00
	Internal Connections	324,110.00		194,466.00	129,644.00
	Internet Access	0.00		0.00	0.00
	Long Distance	7,200.00		4,392.00	2,808.00
	Paging	0.00		0.00	0.00
	Voice	102,048.56		62,249.62	39,798.94
	Web Hosting	0.00		0.00	0.00
	E-rate Totals		671,853.64		406,589.62
State Basic Skills E-rate Application 2005 State Totals - BS/CE		0.00		0.00	0.00
State SUCCESS E-rate Application	2005 Martinsburg HS	30,770.00	60	18,462.00	12,308.00
	Musselman MS	94,578.00	60	56,746.80	37,831.20
	South MS	198,762.00	60	119,257.20	79,504.80
	State Totals - SUCCESS	324,110.00		194,466.00	129,644.00

E-Rate Compliance

County E-Rate Compliance Questions

Acceptable Use Policy

Look at the information included in this section. Revise if any of the information listed is incorrect or needs to be updated.

- Do you have an Acceptable Use Policy? Yes No

- If yes, what is the last date of adoption/revision? 05/17/2004

- When was the public meeting held for CIPA Compliance? 05/10/2001

- Provide the URL to your acceptable use policy. <http://boe.berk.k12.wv.us>

	Other Schools	Buildings	Total
5. Please identify for E-Rate requirements the number of buildings in your county that have Dial Up modem connections to the Internet?	0	0	0
6. Please identify for E-Rate requirements the number of buildings in your county that have 56K frame relay connections to the Internet?	0	0	0
7. Please identify for E-Rate requirements the number of buildings in your county that have T-1 frame relay connections to the Internet?	28	2	30
8. Please identify for E-Rate requirements the number of buildings in your county that have ATM T-1 Internet connections?	0	0	0
9. Please identify for E-Rate requirements the number of buildings in your county that have cable modem connections to the Internet?	0	0	0

10. Please identify for E-Rate requirements the number of buildings in your county that have DSL connections to the Internet?	0	0	0
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11. Please identify for E-Rate requirements the number of buildings in your county that have 10 Mb connections to the Internet?	0	0	0
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12. Please identify for E-Rate requirements the number of buildings in your county that have 45 Mb connections to the Internet?	0	0	0
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13. Please identify for E-Rate requirements the number of buildings in your county that have 100 Mb connections to the Internet?	0	0	0
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14. Please identify for E-Rate requirements the number of buildings in your county that have 1 Gb connections to the Internet?	0	0	0
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15. Please identify for E-Rate requirements the number of buildings in your county that have more than 1 Gb connections to the Internet?	0	0	0
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16. Please identify for E-Rate requirements any other configurations that may exist for buildings connecting to the Internet?			
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