2014

Technology Plan

Barnwell School District 45 (2013–2017)

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Barnwell School District 45
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DISTRICT PROFILE

	2013	2014	2015	2016	2017
Number of Schools	4	4	4	4	4
Number of Students	2449				
@ BPS	825				
@ BES	518				
@ GBMS	434				
@ BHS	672				
Free and Reduced Lunch Percentage	71				
@ BPS	76				
@ BES	75				
@ GBMS	71				
@ BHS	60				
Number of ESL Students	50				
@ BPS	27				
@ BES	12				
@ GBMS	7				
@ BHS	4				
Number of Dropouts	7				
Graduation Rate	75.9				
E-Rate Discount	85				
@ BPS	90				
@ BES	90				
@ GBMS	80				
@ BHS	80				

Barnwell School District 45 (BSD45); Barnwell Primary School (BPS) Pre K-3; Barnwell Elementary School (BES) 4-6; Guinyard-Butler Middle School (GBMS) 7-8; Barnwell High School (BHS) 9-12

EXECUTIVE SUMMARY

The BSD45 Technology Plan 2013–2017 provides a framework for ensuring that the faculty and staff are prepared to successfully deliver research-supported instructional strategies using advances in technology in order to provide students with the necessary tools to succeed in a fast-paced, technology-driven society. This plan is aligned with South Carolina's State Technology Plan 2013–2017 and "…builds on the essential technology dimensions that have formed the basis on technology implementation in South Carolina up to this point while focusing on the three key elements of infrastructure, human resources, and professional development." The five technology dimensions serve as a point of reference for planning, implementing, monitoring, and updating the technology goals for BSD45.

DISTRICT NEEDS ASSESSMENT

Current Technology Needs

- District-wide training for office personnel (e.g., administrative assistants, attendance clerks, secretaries, etc.), guidance counselors, media specialists, and administrators on the effective use of PowerSchool.
- District-wide training for teachers, guidance counselors, media specialists, and administrators on the effective use of PowerTeacher.
- Training for teachers, guidance counselors, media specialists, and administrators on the implementation and modification of school and teacher websites, PlanetHS, and IStation.
- Assistive technology hardware (e.g., GoTalk, Big Mac Switches, touch-screen monitors, etc.) and software (e.g., Boardmaker, SymWriter, etc.).
- Computer workstations and laptops.
- Computer peripherals (e.g., interactive whiteboards, document cameras, etc.).
- Upgrade and improve network infrastructure (e.g., switches, routers, wiring).

Current Technology Inventory

- Over 1200 PCs
- Over 250 laptops
- 200 LCD projectors
- 70 interactive whiteboards
- 150 document cameras
- 24 servers
- 50 wireless access points

Current Technology Support Strategies

- IT team, consisting of 2 computer/network support personnel and an Instructional Technology Coach.
- Internal personnel at each school who serve as computer representatives.
- Technology committee at the district level, consisting of teachers (regular and special education), media specialists, administrators, and IT personnel.
- Contract support (i.e., network, server and database consultants).

DISTRICT VISION AND MISSION STATEMENTS

BSD45 envisions: the establishment of technological learning environments for students, parents, and community members during the conventional hours of the school day, as well as the alternative hours of operation; a commitment to continuous improvement efforts through the usage of innovative technology, ensuring students, teachers, and administrators are technology proficient; and the development of business and corporate partnerships to promote lifelong learning for the entire Barnwell community.

The mission of Barnwell School District 45 schools in partnership with home and community is to provide challenging, appropriately-focused educational opportunities for children in a safe and nurturing school environment.

TECHNOLOGY DIMENSION 1

LEARNERS AND THEIR ENVIRONMENT

A. SNAPSHOT OF CURRENT TECHNOLOGY USE IN DISTRICT

- All students have access to computers and/or laptops in the classroom or via a computer lab
- BHS Business Department students have their own storage space on the server to save electronic documents
- All schools build time into each student's schedule for technology lab

B. OVERALL GOAL FOR THIS DIMENSION

Embed digital information systems into research-proven instructional strategies so that our students achieve technological literacy, attain 21st century skills, and meet the state's academic standards.

C. OBJECTIVES, STRATEGIES, AND ACTION LIST TO REACH GOAL

(1.1) Students will progress towards technology literacy.

1. Create an electronic portfolio that will follow students from kindergarten to 12th grade
2. Utilize application software effectively in the classroom (e.g., Kidspiration, Kidpix, MS Office, Orchard, Study Island, etc.)
3. Correlate curriculum standards with the ISTE standards
4. Fully-implement the ISTE standards for student technology proficiency
5. Ensure students are utilizing technology in an ethical manner

D. IMPLEMENTATION ACTION STEPS FOR DISTRICT/SCHOOLS

- Acquire sufficient storage space to track each student's K-12 technology proficiency
- Establish the criteria for student technology proficiency while adhering to the ISTE standards
- Incorporate cyber security topics (e.g., cyber bullying, copyright laws, password protection) into the criteria for student technology proficiency
- Maintain an Internet content filter with regards to the CIPA law

E. FUNDING CONSIDERATIONS FOR DISTRICT AND SCHOOLS

- E-Rate funds
- Title I funds
- General and K12 Technology Funds
- Private funding / grants

F. EVALUATION OF OBJECTIVES

- Student assessments.
- Evaluation of the technology coach's implementation strategies

TECHNOLOGY DIMENSION 2

PROFESSIONAL CAPACITY

A. SNAPSHOT OF CURRENT TECHNOLOGY USE IN DISTRICT

- All teachers are encouraged to set professional goals that correlate to both their content area and technology
- All BHS teachers are provided training in website maintenance to ensure that the "Homework Hub" is up to date
- All BPS teachers are provided training in the proper use of interactive whiteboards and document cameras in the classroom
- Teachers have the option of attending technology workshops that cover a variety of topics (e.g., document processing, webpage design, storage space maintenance)

B. OVERALL GOAL FOR THIS DIMENSION

Provide curriculum development and professional development/training to increase the technical competency of all South Carolina educators so that research-proven strategies and the effective integration of instructional technology systems can continue to increase student achievement.

C. OBJECTIVES, STRATEGIES, AND ACTION LIST TO REACH GOAL

(2.1) Faculty and staff will be provided adequate professional development opportunities.

1. Inform faculty and staff about professional development in a timely manner
2. Provide targeted and focused staff development
3. Provide a balanced variety of professional development models for faculty and staff that fits the level of proficiency
4. Fully-implement the ISTE standards for teacher technology proficiency

D. IMPLEMENTATION ACTION STEPS FOR DISTRICT/SCHOOLS

- Develop and implement a district-wide system of determining technology proficiency to replace ePortfolio.
- Acquire sufficient storage space to track each student's K-12 technology proficiency
- Establish the criteria for student technology proficiency while adhering to the ISTE standards

- Incorporate cyber security topics (e.g., cyber bullying, copyright laws, password protection)

into the criteria for student technology proficiency
- Maintain an Internet content filter with regards to the CIPA law

E. FUNDING CONSIDERATIONS FOR DISTRICT AND SCHOOLS
- E-Rate funds
- Title I funds
- General and K12 Technology Funds
- Private funding / grants

F. EVALUATION OF OBJECTIVES
- Teacher assessments
- Evaluation of technology coach's implementation strategies

TECHNOLOGY DIMENSION 3

INSTRUCTIONAL CAPACITY

A. SNAPSHOT OF CURRENT TECHNOLOGY USE IN DISTRICT
- All schools have computer/laptop labs for faculty, staff, and students to access
- All academic classrooms are equipped with interactive whiteboards, projectors, and document cameras
- All BHS and BES teachers have access to projectors
- Interactive whiteboards are available in all Schools

B. OVERALL GOAL FOR THIS DIMENSION

Use current and emerging technologies to create learner-centered instructional environments that enhance academic achievement.

C. OBJECTIVES, STRATEGIES, AND ACTION LIST TO REACH GOAL

(3.1) BSD45 will provide the technological resources necessary for the implementation of research-driven instructional practices.

1. Provide teachers and students access to laptops, computers, and interactive whiteboards (e.g., SMART Boards, Promethean Boards)
2. Provide training to teachers on the effective use of laptops, computers, data projectors, and interactive whiteboards in the classroom
3. Provide teachers and students access to online services (e.g., Study Island, Accelerated Reader), locally-networked resources (e.g., Orchard), and media-based instructional materials (e.g., Moodle), PlanetHS, IStation, and StreamlineSC

D. IMPLEMENTATION ACTION STEPS FOR DISTRICT/SCHOOLS
- Utilize the SDE provided system to document the incorporation of technology into the classroom

E. FUNDING CONSIDERATIONS FOR DISTRICT AND SCHOOLS

- E-Rate funds
- Title I funds
- General and K12 Technology Funds
- Private funding / grants

F. EVALUATION OF OBJECTIVES

- Analyze hardware and software inventory, including contracts and software renewals
- Evaluate data logs monitored objects (e.g., Extenda, Content Filter, FireWall and State Sensor)

TECHNOLOGY DIMENSION 4

COMMUNITY CONNECTIONS

A. SNAPSHOT OF CURRENT TECHNOLOGY USE IN DISTRICT

- Articulation agreements have been established with Denmark Technical College and USC-Salkehatchie
- BSD45 partners with other school districts (mostly Williston and Blackville) to ensure that all students with special needs are accommodated in the most appropriate setting with the necessary assistive technology
- All schools have established a school improvement council that meets regularly
- BSD45's website has switched to an eChalk environment and evaluating PlanetHS
- PowerSchool and PowerTeacher are utilized by the district's faculty, staff, and administration teams and Parent Portal for Parent Intervention

B. OVERALL GOAL FOR THIS DIMENSION

Use technology, including assistive technology, and digital information systems to maximize community involvement and community partnerships and to increase student achievement.

C. OBJECTIVES, STRATEGIES, AND ACTION LIST TO REACH GOAL

(4.1) BSD45 will utilize all available resources by fostering collaboration and cooperation among state-supported organizations, institutions, and initiatives.

1. Partner with state-supported organizations (e.g., AXIS I, Denmark Technical College, USC-Salkehatchie) as well as other school districts in order to provide assistive technology demonstration, loan, and assessment for students with special needs
2. Ensure that each school establishes a school improvement council, consisting of administrators, teachers, students, parents, and business and community members

(4.2) BSD45 will encourage parental involvement by ensuring that teachers are utilizing electronic gradebooks and homework websites.

1. Provide parental access to student grades through the implementation of PowerTeacher Gradebook and the Parent Portal
2. Provide parental access to student assignments through the maintenance of teacher websites

(4.3) BSD45 will ensure that all their buildings remain linked by the Internet to the State Library's DISCUS database and to the websites of universities, museums, and other institutions.

1. Mandate that BSD45's website be updated daily

D. IMPLEMENTATION ACTION STEPS FOR DISTRICT/SCHOOLS

- Train parents on the proper usage of web-based software (e.g., PowerTeacher Portal)
- Provide a basic computer skills class for English as a second language (ESL) parents

E. FUNDING CONSIDERATIONS FOR DISTRICT AND SCHOOLS

- E-Rate funds
- Title I funds
- General and K12 Technology Funds
- Private funding / grants

F. EVALUATION OF OBJECTIVES

- Track technology workshop participants by requiring sign-in sheets and evaluation forms
- Collaborate and communicate with the guidance department from each school to ensure partnerships with other school-associated entities are documented–this is the district technology committee's responsibility
- Access usage data (i.e., the frequency of parent and teacher use) from PowerSchool

TECHNOLOGY DIMENSION 5

SUPPORT CAPACITY

A. SNAPSHOT OF CURRENT TECHNOLOGY USE IN DISTRICT

- BSD45 employs two IT support personnel with a Network Administrator supervising technology on a full-time basis
- A full-time certified teacher serves as a technology instructor at BPS
- One computer assistants work with teachers and students at BES
- Three computer applications teachers, one industrial technology teacher work with students at BHS
- One district-wide technology coach supports all technology endeavors within the district

B. OVERALL GOAL FOR THIS DIMENSION

Expand and support technology resources to assist educators and learners in attaining 21st century skills and meeting the state academic standards.

C. OBJECTIVES, STRATEGIES, AND ACTION LIST TO REACH GOAL

(5.1) BSD45 will increase technology support and maintenance.

1. Implement a new computer/old computer five-year cycle, ensuring computers are up-to-date
2. Identify the required resources for a computer expansion plan
3. Utilize a technology database for collecting data on our current technology inventory

4. Provide the IT staff with on-going, up-to-date training to develop essential skills
5. Maintain and increase the number of technology lab instructors and technology coaches in the district

(5.2) BSD45 will increase technology infrastructure.

1. Provide adequate server space, ensuring all students have access to an electronic portfolio for each school
2. Follow the SDE's guidelines for increasing the bandwidth
3. Upgrade the wiring and Wireless Access Points in the district
4. Add more network drops in the classrooms
5. Update the networking hardware
6. Maintain site licenses for software

D. IMPLEMENTATION ACTION STEPS FOR DISTRICT/SCHOOLS

- Develop a procedure for processing new inventory, recycling old inventory, and disposing of obsolete inventory–the SDE recommends several companies

E. FUNDING CONSIDERATIONS FOR DISTRICT AND SCHOOLS

- E-Rate funds
- Title I funds
- General and K12 Technology Funds
- Private funding / grants

F. EVALUATION OF OBJECTIVES

- Track work orders, inventory data, and budget adherence

CUMULATIVE BENCHMARKS

- All students will complete an ongoing District Developed System that tracks their yearly technology progress. Two or three technology tasks (e.g., word processing, PowerPoint presentation, spreadsheet, etc.) based on grade level and varying in difficulty and application will be added to the District Developed System each year.
- Twenty percent of BSD45's computer hardware will be upgraded or replaced each year.
- One computer lab in the district will be accessible to parents after school and in the evening during 2014. Additionally, one lab per year will become accessible to parents after school and in the evenings with a target of five parent-access labs by 2015.
- Two technology workshops per year will be offered to parents with multiple sessions running after school and in the evening.

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BIBLIOGRAPHY

International Society for Technology in Education. (2009). *The ISTE national educational technology standards (NETS•A) and performance indicators for administrators*. Retrieved on September 1, 2009 from http://www.iste.org/Content/NavigationMenu/NETS/ForAdministrators/2009Standards/NETS-A_2009.pdf

International Society for Technology in Education. (2008). *The ISTE national educational technology standards (NETS•T) and performance indicators for teachers*. Retrieved on March 29, 2009 from http://www.iste.org/Content/NavigationMenu/NETS/ForTeachers/2008Standards/NETS_T_Standards_Final.pdf

International Society for Technology in Education. (2007). *The ISTE national educational technology standards (NETS•S) and performance indicators for students*. Retrieved on March 29, 2009 from http://www.iste.org/Content/NavigationMenu/NETS/ForStudents/2007Standards/NETS_for_Students_2007_Standards.pdf

South Carolina Department of Education. (2009). *South Carolina curriculum standards*. Retrieved on March 29, 2009 from http://ed.sc.gov/agency/Standards-and-Learning/Academic-Standards/

South Carolina Department of Education. (2009). *South Carolina state technology plan 2009–2013: Digital resources enabling achievement*. Retrieved on March 29, 2009, from http://ed.sc.gov/agency/offices/tech/techplan/documents/PlanJanuary09.doc

APPENDIXES

APPENDIX 1: NO CHILD LEFT BEHIND ACTION PLAN

The BSD45 Strategic Plan addresses the “No Child Left Behind” law.

APPENDIX 2: TEACHER TECHNOLOGY PROFICIENCY PROVISO PROFESSIONAL DEVELOPMENT PLAN

BSD45 is implementing a district-developed system for teachers to demonstrate technology proficiency. This will take the place of the ePortfolio system, no longer provided by the state. These assessments will be taken several times per year, followed by workshops to address needs determined by the assessments. Teacher’s lesson plans and observations will be used to verify technology integration in the classroom.

Use of this plan will meet the state's requirement of demonstration of proficiency according to the ISTE standards. The SDE requires that documentation be kept for each teacher to verify that ISTE standards have been met.

APPENDIX 3: DISTRICT'S ACCEPTABLE USE POLICY

Policy IJNDB Acceptable Use for Network, Internet and E-Mail Services

Issued 4/06

Purpose: To establish the board's vision and the basic structure for the acceptable use for network, Internet and e-mail services.

Technology is a vital part of education and the curriculum of the district. In an effort to promote learning and expand educational resources for students, the district has made arrangements to provide network, Internet, and e-mail access to students and staff. The district's goal in providing these services is to promote educational excellence by facilitating resource sharing, communication and innovation.

Access to the network, Internet and e-mail services is a privilege, not a right. With this privilege, there also is a responsibility to use these technologies solely for educational purposes and not to access inappropriate materials. To that end, the district administration is directed to develop appropriate guidelines governing the use of district computers to access these technologies. The district administration is also directed to implement such technology protection measures and safety rules as may be required by the conditions of eligibility for any federal or state technology funding assistance program.

As part of the implementation of the administration's guidelines, students and staff must be instructed on the appropriate use of the network, Internet and e-mail services. Students also must sign a form acknowledging that they have read and understand the acceptable use for network, Internet and e-mail services policy and administrative rule, that they will comply with the policy and administrative rule and that they understand the consequences of violating the policy or administrative rule. District staff must sign a similar acknowledgement form before they will be allowed to access the network, Internet and e-mail services. Inappropriate use by any person will not be tolerated.

Adopted 11/19/98; Revised 4/27/06

Legal references:

Federal law:

- 47 USC Section 254(h) - Children's Internet Protection Act.
- The Digital Millennium Copyright Act of 1998, Section 512 - Limitations on liability relating to material online.

S.C. Code of Laws, 1976, as amended:

- Section 10-1-205 - Computers in public libraries; regulation of Internet access.
- Section 16-3-850 - Encountering child pornography while processing film or working on a computer.
- Section 16-15-305 - Disseminating, procuring or promoting obscenity unlawful; definitions; penalties; obscene material designated contraband.

Click the following link to view the AUP in its entirety:
http://policy.microscribepub.com/cgi-bin/om_isapi.dll?clientID=208862210&infobase=barnwell.nfo&softpage=PL_frame

APPENDIX 4: HOW E-RATE AREAS HAVE BEEN ADDRESSED

BSD45 will provide curriculum and professional development to increase the competency of all district educators so that research-proven strategies and the effective integration of instructional technology systems can be used to increase student achievement. The professional development will be ongoing through the school year and will consist of numerous activities that district educators can choose to attend.

BSD45 will use current and emerging technology to create learner-centered instructional environments that enhance academic achievement. More upgrades and technology tools have been and will be purchased to provide these opportunities.

BSD45 will increase student achievement through the use of technology, including assistive technology, at the primary level by hiring a certified teacher to work with students in the computer lab on a daily basis for approximately forty-five minutes; at the elementary school level by hiring two computer assistants to teach keyboarding and to enhance student knowledge of both technology and standards-based content through the use of educational software; and at the middle school level by reassigning a teacher to aid in ensuring students have opportunities throughout the year to develop technology skills.

Meaningful, sustained professional development is the key to ensuring that BSD45's faculty and staff are well trained in using research-proven technology integration strategies across the curriculum to improve student achievement. The district will continue to offer courses to staff members interested in improving their technological knowledge.

Staff members have been given the opportunity to take district purchased and district-level facilitated online courses that not only allow educators to gain graduate course credit, but most importantly, ensure technology proficiency. Several online courses have been offered through PBS and eLearningSC that are aligned to ISTE's NET•T standards. Monthly technology proficiency related workshops have been offered the entire school year to allow all educators the opportunity to grow in the area of technology. These teachers have provided staff development in their respective schools and within the district. Faculty and staff have attended trainer sessions in PowerSchool software and have provided instruction to other staff members in the utilization of PowerTeacher. Media Specialists have provided one-on-one instruction with teachers undergoing goals-based evaluation in the area of technology (i.e., creation of teacher web pages). Teachers within the BHS business department have conducted staff development in the use of Office and Power Point for BHS faculty. Administrators have participated in statewide Technology Training conducted by the SDE through the Gates foundation.

Other faculty and staff members have attended the EdTech conference. Teachers, curriculum coordinators, and administrators received numerous training in the MAP assessment system of online testing and data interpretation. Teachers at all grade-levels have received extensive training in the use of instructional tools (e.g., United Streaming, Orchard, Study Island) to enhance all lessons through the use of technology and educational software.

There are many other areas of need within the district that will be addressed over the next five years.

- BSD45 will submit to the SDE an annual technology plan that documents site-based input and includes a plan for professional development that outlines the technology education offerings and requirements, including assistive technology.

- District and school administrators will submit an annual professional development plan that is reviewed as part of the administrator's annual evaluation. In addition to other goals, the plan must include technology goals for professional development.

- BSD45 will provide training to district- and building-level administrators on effectively assessing a teacher's ability to integrate technology, including assistive technology, into the curriculum.

Over the past three years, the district has made steady strides in acquiring instructional technologies and using these learning tools to increase student achievement. Technologies, such as satellite systems and online course delivery tools, are used as apparatuses for learning. Numerous educators have received graduate and renewal credits through the use of the district technology tools and services. Grants continue to provide funds for increased access to technologies, such as digital cameras, digital camcorders, document cameras, projectors, interactive whiteboards, and scanners. All schools have purchased additional projectors, document cameras, interactive whiteboards, and laptops for classroom use. One computer lab was added at the primary school and a full time certified teacher will continue to instruct these students. A computer lab was also added at the high school. The district office also constructed a professional development room that includes laptops, a projector, an interactive whiteboard, and a wireless access point.

All schools utilize the South Carolina Educational Television satellite system enabling them to access a greater variety of instructional programming. Teachers have individual storage spaces on the district network to organize their documents, tests, and presentations. Teachers also have individual network storage space for "homework hubs." All teachers and administrators are able to communicate electronically through GroupWise email. Our new district website has incorporated sites for parents, teachers, and students to visit and interact. This is a work in progress and will truly enhance our district's needs in the area of technology.

BSD45 takes advantage of E-rate discounts. These discounts, coupled with other funding, are used to pay for High Speed Internet Services, which enables faculty and staff to access school web pages and other Internet resources. All schools use E-rate for internal connections, which include local phone service, file servers, switches, hubs, routers, building wiring, and network operating systems. The career awareness counselors at the high school and middle school use SCOIS and other Internet resources to assist in student career planning (i.e. to familiarize students with job clusters and the training they need to achieve their career goals). Through the benefits of an E2T2 grant, the middle school has added a tremendous amount of technology, including a wireless laptop lab that carries all networked software.

Students are creating products using Publisher, Word, and PowerPoint. The grant has increased student access to DISCUS and other Internet-based information by doubling the number of computers available.

BSD45 will upgrade existing technology to provide students with the most current technological opportunities. Staff development will be held for teachers in the utilization of technology in the delivery of standards based instruction. Specific software will be purchased to allow teachers to prepare students to improve achievement levels on HSAP, EOCEP, PASS, SAT and ACT. Interactive testing (e.g.,

MAP) will be conducted in grades K-10 three times per year to allow teachers to better diagnose individual student's strengths and weaknesses.

BSD45 will budget appropriate funds to allow students and teachers access to educational technology. The district will also explore alternative funding opportunities including, but not limited to, Title I, K-5 enhancement, E2T2 and block grants.

Title I funds, E2T2 competitive and/or formula funds, and local funds will be utilized to ensure that K-8 students have access to current technology. Computer labs will be upgraded on a regular cycle. Teachers will be provided with professional development to better prepare the instructional staff to integrate technology into their lesson plans. Courses in instructional technology will be offered to teachers to improve their ability to use technology in an instructional setting.

The district will utilize grant funds, local budget revenue, and state and federal dollars to provide staff development for teachers, administrators, and media personnel in the effective use of technology. The district's technology committee will annually survey teachers, media specialists, et al to determine the basic needs for training in an effort to develop a meaningful professional development plan. Barnwell 45 will partner with various local and state agencies, including the SDE, local postsecondary institutions, and the DLEC, to deliver appropriate course work and staff development. Online courses will be offered through PBS Teacherline and eLearningSC to enhance technology skills and strengthen content areas.

Technology is the key to education and the most challenging to keep abreast and upgraded. Due to the daily changes in technology, a constant flow of money must be found and used to ensure that all students are given the opportunities to master technology standards and to use the numerous technology tools that are available. Budget cuts at the state level have slowed the purchase of specific technology items and negatively impacted the replacement cycle. The current plan is to replace all PC's that are obsolete (or on the verge of obsolescence) based on age, operating system and support from Microsoft. Each PC averages approximately $900 dollars. In addition, digital cameras, video cameras, and projectors will be maintained in the media centers at each school for teacher/classroom use.

During 2011-2013, BSD45 applied for and received $35,282.59 E-rate dollars. The E-rate funds, in conjunction with $77,937 in special federal funds, $50,798 in state funds, and $192,000 in local funds, were used to purchase new technology equipment, which enabled our teachers to better provide standards-based instruction. Local funds were used to employee three full-time employees to provide technical support to our hardware and network. A technology coach was employed at our Middle school. During 2008-2009, TA funds were used to hire a computer lab teacher for the primary school to provide remediation and enrichment in the area of language arts. Computer assistants were funded for the elementary and middle schools to ensure learning and use of technology.

During 2010-2011, BSD45 applied for and received $11,246.37 E-rate dollars. The E-rate funds, in conjunction with $195,775.78 in special funds, $284.27 in federal funds, and $6823.36 in local funds, were used to purchase new technology equipment and supplies, which enabled our teachers to better provide standards-based instruction. Local funds were used to employee three full-time employees to provide technical support to our hardware and network. Computer assistants were funded for the elementary and middle schools to ensure learning and use of technology.

During 2011-2012, BSD45 applied for and received $50,743.64 E-rate dollars. The E-rate funds, in conjunction with $0.00 in special funds, $1,296.68 in federal funds, $44,883.74 in state funds and $138,240.86 in local funds, were used to purchase new technology equipment and supplies, which enabled our teachers to better provide standards-based instruction. Local funds were used to employee three full-time employees to provide technical support to our hardware and network. Computer assistants were funded for the elementary and middle schools to ensure learning and use of technology.

Activities within the technology plan will be reviewed annually. The review will be conducted by the district technology committee, which consists of administrators, regular and special education teachers, media specialists, and the IT team. The review process will assess the progress of teachers and students in the understanding and utilization of technology as a learning tool. These results will be provided in a report to the Superintendent and Board of Trustees. Items for review in the evaluation process include, but are not limited to:

a. Student performance in standardized tests
b. Analysis of specific demographic groups or standardized tests
c. Teacher proficiency in technology
d. Review of purchase of specific technology
e. Review of purchase of standards based instructional software

APPENDIX 5: TECHNOLOGY BUDGET

TECHNOLOGY BUDGET – FY2011

GENERAL FUNDS		
Salaries and Benefits		$ 113,279.41
Equipment		$ 55,000.00
Travel		$ 1,228.21
Technical Equipment and Software		$ 3,000.00
Software License Renewals		$ 07,628.17
	SUBTOTAL 1	**$ 180,135.79**
FEDERAL PROGRAMS		
Laptops		$ 00,000.00
Desktops		$ 4,498.55
Technical Equipment and Software		$ 06,747.82
	SUBTOTAL 2	**$ 11,246.37**
	TOTAL	**$ 191,382.16**

TECHNOLOGY BUDGET – FY2012

GENERAL FUNDS		
Salaries and Benefits		$ 189,044.00
Equipment		$ 20,241.33
Travel		$ 1,385.37
Technical Equipment and Software		$ 42,010.19
Software License Renewals		$ 27,287.56
	SUBTOTAL 1	**$ 279,986.45**
FEDERAL PROGRAMS		
Laptops		$ 03,705.07
Desktops		$ 47,584.43
Technical Equipment and Software		$ 10,497.71
	SUBTOTAL 2	**$ 61,787.21**
	TOTAL	**$ 341,773.66**

TECHNOLOGY BUDGET – FY2013

GENERAL FUNDS		
Salaries and Benefits		$
Equipment		$ 46,378.14
Travel		$ 1,500.00
Technical Equipment and Software		$ 4,572.57
Software License Renewals		$ 39,784.81
	SUBTOTAL 1	**$ 92,235.52**
FEDERAL PROGRAMS		
Laptops		$
Desktops		$
Technical Equipment and Software		$
	SUBTOTAL 2	**$**
	TOTAL	**$**

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Superintendent: _____ DATE: 31JAN14

Network Administrator: _____ DATE: 31-jan-2014