

Byram Township School District



Technology Plan Years 2010-2013

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District Technology Committee

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Table of Contents

<i>I. District Technology Committee - Stakeholders</i>	<u>2</u>
<i>Acknowledgements</i>	<u>2</u>
<i>II. Technology Plan Summary</i>	<u>3</u>
A. Introduction	<u>3</u>
B. Mission Statement	<u>3</u>
C. Visions	<u>4</u>
<i>III. Technology Overview</i>	<u>5</u>
A. Inventory Summary	<u>5</u>
B. Cyber Safety	<u>6</u>
C. Needs Assessment Summary	<u>6</u>
<i>IV. Three Goals and Objectives</i>	<u>9</u>
A. Review Goals and Objectives (July 2007 - June 2010)	<u>9</u>
B. Goals and Objectives (July 2010 - June 2013)	<u>11</u>
<i>V. Three-Year Implementation Strategies</i>	<u>12</u>
A. Three-Year Technology Plan Inventory Table (2010-2013)	<u>13</u>
<i>Funding Plan (July 2010 – June 2013)</i>	<u>14</u>
B. School Year 2010 – 2011	<u>14</u>
C. School Year 2011 – 2012	<u>15</u>
D. School Year 2012 – 2013	<u>16</u>
<i>VI. Professional Development</i>	<u>17</u>
<i>VII. Evaluation Plan</i>	<u>18</u>

I. District Technology Committee - Stakeholders

Name	Position/Title
Russell Raffay	Board of Education/Parent/Community Member
Jon Garrity	Board of Education/Parent/Community Member
Joe Novak	Community Member
Dr. Gayle Strauss	District Superintendent
Theresa Linskey	District Business Administrator
Darlene Markman	Lakes Elementary School Principal
MaryBeth Dowd	Lakes School Teacher-Basic Skills Grades K-2nd
Tim McCorkle	Lakes School Teacher-Enrichment Grades 2nd-4th
Jack Leonard	Intermediate School Principal
Stacy Deza	Intermediate School Assistant Principal
Brian Hamer	Intermediate School Teacher-Enrichment Grades 5-7th
Kim Gallagher	Intermediate School Teacher-Resource Grades 6-7th
Kathy Rupprecht	Technology Support/Library Media Aide/Community Member
Michael Marron	District Technology Coordinator/Community Member

Acknowledgements

The content of the Byram Township School District Technology Plan was guided by input from all of the Technology Committee members. In addition, members of the district's teaching staff provided valuable input on the current use of and future visions for technology in the classroom. Their direction insured that the schools' use of technology would adhere to the district's educational goals, and that technology would be infused into the curriculum in a manner that would aid the staff and the students in pursuit of those goals. I thank all the participants for the time and dedication they gave to completing this plan. Their leadership, insight and perseverance continue to be an invaluable resource for the district.

II. Technology Plan Summary

A. Introduction

It is widely accepted that today's educators must prepare their students for life in the 21st century. Technology brings resources to the classroom that can stimulate and encourage learning. Technology is an important part of many current vocations and will relate to virtually all jobs in the future. With that understanding, comes the challenge of preparing our students for tomorrow's technology. Technology, with its applications, is a tool that an individual can employ to enhance communication, to solve problems and to access information. Therefore, technology in the Byram Township schools will not be implemented as an isolated discipline, but as an integrated part of the district curricula. The purpose of the Byram Township School District's Technology Plan is to infuse technology into our curriculum, where students will learn the purpose, use, application and value of technology as a tool.

In planning for technology, the district must first consider how, such tools will be used by our students and staff in the education process. Our goal will be to place at their disposal an infrastructure that will maximize opportunities for communicating, problem solving and accessing information. The availability of this resource will increase the students' active participation in the learning process and place the teacher in the role of being the link between the present technological innovations and our traditional educational goals.

This plan to advance technology in the Byram Township Schools will continue to address three main factors; student outcomes, staff outcomes and the acquisition of technology resources. It will assess the current status of technology in our schools and it will project a systematic three-year plan to reach our established goals. In addressing these goals it is important to recognize that technology will continue to improve in power, speed and price. As the capabilities of technology are enhanced, continued staff development will be required.

B. Mission Statement

The district will provide a technology infrastructure capable of eliminating time and distance as a barrier to student and staff communication, research and learning.

The district will advocate and provide models for the appropriate use of technology, to foster creativity, encourage higher order thinking, and motivate students.

The district will prepare the staff through ongoing access to technology and professional development opportunities.

The district will maintain adequate network resources and services to connect all classrooms, teaching stations and offices within the district and provide appropriate links to the local, national and global community.

C. Visions

Technology, Learning & the Curriculum

- The use of technology will not be limited to network and computer resources, but may include audio visual, optical scanning, digital imaging, receiving and recording devices capable of utilizing and producing multimedia resources.
- Learning will not be bound by time or location.
- Students will become increasingly more independent and more responsible for their education.
- Access to unlimited information will broaden the scope of the traditional curriculum.
- The curriculum and the core standards will serve as outlines and guides, the teachers as facilitators.
- Teaching students the inquiry and research process will be as important to the goal as the report that is produced.
- Technology will enable the student to pursue interests in the manner that best suits his/her learning modalities.
- Technology will encourage cross-curricular studies.
- Staff will require comprehensive training in the use of technology and retraining in the management and presentation of learning.
- Students will require guidance and supervision in the use of technology.
- Parents will require direction in establishing guidelines for supervising the use of technology in the home.
- Technology will become an invaluable resource for the community. The schools will provide better access to this resource through the utilization of their facilities.

III. Technology Overview

A. Inventory Summary

Every school year, the NJDOE School Technology Survey is completed. The following summarizes the data gathered from the 2009 annual inventory, plus equipment added through March 2010 of the 2009-2010 School Year. The Technology Inventory is updated annually.

Instructional Areas & Administrative Offices Inventory

Equipment Type	School Building Int=Intermediate Lakes=Lakes Elementary								Totals
	Computer Classrooms		Instructional Classrooms		Library Center		Admin Offices		
	Lakes	Int	Lakes	Int	Lakes	Int	Lakes	Int	
Multimedia Workstations	29	60	106	99	8	28	13	31	374
Servers							10	2	12
Totals	29	60	106	99	8	28	23	33	386
Interactive White-Boards	1	2	11	11	1	1	0	0	27
LCD Projectors	1	2	11	20	1	1	0	0	36
Scanners	0	1	1	1	0	1	1	2	7

Network Equipment Inventory

School	Switches	Hubs	Routers	Firewall	Servers
Intermediate	9 – 205 Ports	9 – 36 Ports	1	1	2
Lakes Elementary	7 – 147 Ports	3 – 18 Ports			10

The cabling infrastructure for the site and buildings follows “premise wiring standards” and includes fiber-optic backbone between buildings and wiring closets. Cat 5e or better network drops exist to all teaching and administrative areas.

Floor plans of the cabling infrastructure for each school building, as well as, any certification and guarantees are documented. Cable documentation and certification summary reports are available for review in the Office of the Technology Coordinator.

Internet access for the district campus is currently via dedicated and bonded T-1 circuits, which are connected to a Tier-2 Internet Service Provider. The current bandwidth capacity of our Internet service is dual T-1 providing a data rate of 3MB for both the upload and download of information over the Internet. Service Level Agreement for the T-1 circuits provides guaranteed performance levels at 99.9% uptime availability. Internet connectivity is secured and protected by a network firewall and content filtering.

In addition to the hardware, cabling, and electronics, the district’s two school buildings were inspected to determine the electrical capacity of each. The Byram Intermediate School’s electrical capacity, as established by General Public Utilities, is 1600 amps. The Byram Lakes Elementary School has an electrical capacity of 2000 amps.

The district has embraced the concept of “Total Cost of Ownership - TCO” for evaluating the cost effectiveness of technology. The criteria use to define obsolescence and our plans for replacing obsolete technology are based upon the “TCO” analysis of equipment and systems. Our Terminal Server/Thin Client platform has significantly reduced the “TCO” for technology utilized in the district. Server based computing allows for centralized installation, administration and access to software applications, data storage, printing and other technology resources. Supplementing the Terminal Server/Thin Client platform is the use of network monitoring and management tools that have alleviated much of the need for hands-on management of individual workstations. In addition, the district’s Server/Client infrastructure supports a “turn-key” remote access capability via the Internet. This can provide any end user access to their data folders and software applications which duplicates most of the “in-school” computing capability and experience.

Current “TCO” metrics indicated an expected life of up to 5 years for computer workstations and up to 8 years for thin client devices. Implementation of Terminal Server technology has extended the useful life of obsolete computer workstations, further reducing the TCO for the district. Software licensing costs can be managed based upon actual concurrent demand versus workstation or end user counts. Management and maintenance expense are significantly reduced, allowing a large number of end user devices (see technology inventory section) to be supported by one full time Technology Coordinator and a part time Technology Support Aide.

B. Cyber Safety

Maintaining the necessary network security provisions to assure the safety of our staff and students from threats, such as: exposure to inappropriate on-line content, electronic identify theft, on-line predators, SPAM, adware, computer viruses, etc. is of paramount concern.

The district’s security provisions include, but are not limited to: network firewalls to block unwanted internet traffic and attacks, Internet content filtering to block designated inappropriate content, Email content filtering to block or isolate SPAM, network security tools for detecting computer viruses, trojans, etc.

District policies establish behavior standards for utilization of technology resources by staff and students. End user network contract and Acceptable Use Policy are enforced as needed to prevent abuse of technology resources and ensure proper “netiquette” when using the Internet and electronic mail.

On-line safety awareness is part of the Technology Literacy curricula taught in the school district (see Technology Goal and Objectives - #3). Past practices for educating students, staff and parents about on-line safety have also included school presentations, distribution of on-line safety brochures and website postings for presentations and resources on “netiquette” and on-line safety.

C. Needs Assessment Summary

Needs assessment for educational technology is part of the ongoing monitoring and management of the district technology resources by the Technology Coordinator and the School Administrators. Annually, technology purchases are “prioritized” as part of the budget planning process and defined technology goals/objectives. During the development of this Technology

Plan, the District Technology Committee reviewed the current status of the district technology, discussed the existing educational goals of the district, prioritized the technology needs and established the new 3-year technology goals and objectives.

The primary resources and information used to facilitate the assessment are administrative reports on technology, staff surveys and evaluations pertaining to technology, the annual technology survey and inventory, ongoing instructional practices, network utilization monitoring and metrics. Examples of some of the key information used in the needs assessment are as follows:

2009 Technology Survey Data

Percentage of Staff at each skill level in the use of technology in instruction				
Teachers	Beginner	Intermediate	Advanced	Instructor
Lakes School	11%	77%	10%	2%
Intermediate School	0%	45%	45%	10%
Administrators				
Lakes School		100%		
Intermediate School		67%	33%	

Percentage of Students that use technology tools & the internet on a daily basis				
Technology Tools	0-25% of Day	26-50% of Day	51-75% of Day	75-100% of Day
Lakes School	100%			
Intermediate School	100%			
Internet				
Lakes School	100%			
Intermediate School	100%			

All Instructional areas and offices have network/internet connectivity. As a result, 100% of the staff and student access to the Internet, plus all of the Administrators and Instructional Staff have access to email.

The following priorities were established to support the needs of the district to improve academic achievement for all students through the integration of technology across all curricular areas:

Add a unified communications and fault tolerant capabilities to the District Telecommunication systems.

Use a content\learning management system – CMS\LMS to enhance the District Website.

Expand the availability of student performance data to enhance the active participation of the student and parent in the learning process.

Add “broadband” capacity and speed to improve District Internet Access.

Upgrade the District Network capacity and speed to improve system performance.

Upgrade computer lab workstations capabilities to improve processing speeds and presentation multi-media content.

Evaluate and implement technology options for continued reductions in “Total Cost of Ownership – TCO”.

Improve utilization of technology resources with more effective and ongoing training opportunities.

IV. Three Goals and Objectives

A. Review Goals and Objectives (July 2007 - June 2010)

Goal 1 Students will progressively acquire technology and information literacy skills.

Technology resources remain readily available for students to become proficient in the use of technology. Proficiency standards for technology literacy continue to be added to the district curricula. Informal assessment methods have been used to report percentage of 8th grade students to be proficient as defined in the NJDOE Technology Literacy standards. The content of a student's network folder is as a "digital portfolio" that demonstrates progress toward proficiency. The 8th grade student's "digital portfolio" should be the preferred method of assessing proficiency. Goal will continue with updated objectives and timelines.

Goal 2 Staff will acquire the knowledge and skills to effectively utilize technology to assist student achievement.

Staff knowledge of technology tools and their skills utilizing technology have improved incrementally. Training on the use of interactive "smartboards", computer projectors, internet resources and the district student information system have contributed to the success in reaching this goal's objectives. Staff evaluations are used to address the effective use of technology. Administrative staff have expanded the of the district's student information systems to improve student scheduling, track and report student progress, plus meet the NJDOE and NJSMART reporting requirements. Goal will continue with updated objectives and timelines.

Goal 3 Integrate the use of technology into the district curriculum at all grade levels.

The district curricula have been rewritten to integrate the use of technology at each grade level. Staff and student folders provide evidence of the effective use of technology and are evaluated annually by the administrators. The Board of Education Curriculum Committee meets throughout the school year to address curriculum needs and review curricula. The use of multi-media authoring/presentations tools and the video streaming technology should be expanded for student instruction. Goal will continue with updated objectives and timelines.

Goal 4 Students and staff will have access to the district technology resources in all learning environments.

District technology resources are available to staff and students in all instructional areas as well as from home via remote access. Instructional presentation has been enhanced with the addition of Interactive "Smartboards" and LCD projectors. No mobile computing strategy has been developed due to funding constraints. Reducing "Total Cost of Ownership-TCO" remains a key strategy of our technology implementation plans and the district has been very successful in keeping overall technology operating costs low and level from year to year. Goal will continue with updated objectives and timelines.

Goal 5 District will maintain and enhance the technology infrastructure as a secure and cost effective means of accessing and communicating information.

The district network facilities have provided students, staff and the community a safe and secure means of accessing our technology resources. The technology infrastructure cost effectively supports the district information systems and allows the district to communicate with student, staff, parents and the community, via a variety of data and telecommunication systems. Limited wireless connectivity within the district has been established due to funding constraints. The use of the district's technology resources for student instruction has increased dramatically over the last tree years. Enhancing the capability of our internet access, the district website and local area network will be a focus for technology expenditures over the next three years. Goal will continue with updated objectives and timelines.

Goal 6 Integrate the use of assistive technology at all grade levels.

Significant progress has been made recently in the purchase and installation of assistive technology software and touch screen workstation with the availability of ARRA/Stimulus funding. The assistive technology needs of the district are being evaluated on a case-by-case basis, but an overall implementation strategy is still being developed. Goal will be redefined with updated objectives and timelines.

Overall, the district has been successful in meeting the vast majority of the 2007-2010 Technology Plan Goals and Objectives. The following are some of the Technology Projects completed in support of these goals and objectives:

In 2007 and 2008 the district was able to increase the number of interactive “Smartboards” and computer projectors in use. The availability of these resources continues to foster the daily use of “digital” and multi-media content for classroom instruction. “Smartboard” tools and software are used for lesson preparation in collaborative teaching efforts. Professional development seminars and staff conducted peer to peer training workshops on the use of “Smartboards” in the classroom has provided opportunities for ideas to be readily shared.

All teaching staff computer workstations were replaced, eliminating any obsolete computer workstations still in use by staff. Purchasing refurbished computers and utilizing “disk imaging” technology to deploy a standardized configuration, security provisions and a common set of applications reduced the TCO for these workstations. Obsolete computers were “re-tasked” for use as “fat client” workstations to create the equivalent of another computer classroom in the Intermediate School Annex Library/Media Center.

All older 10MB network hubs were replaced with 10/100MB network switches. Network Data Storage and Backup capacity has been significantly increased to accommodate the demands of: student’s “digital portfolios”; multi-media educational content, such as, video-streaming files; electronically stored lesson plans, instructional content and the district information systems including administrative files and folders.

Operational efficiencies have been realized by the integration of data storage and retrieval requirements across our district information systems. This includes data exchange between the district’s student information and IEP tracking systems; business office accounting, budgeting and personnel systems and meeting NJSMART data reporting requirements with our existing information systems.

The Honeywell Instant Alert System was implemented to provide the school district with a community notification broadcast capability via phone, email and text messaging.

“Flat” funding for technology, plus actual budget reductions in 2009 and 2010, have severely limited the ability of the district to add and/or expanded the technology resources available to staff and students. As a result, the following objectives were not met: develop a mobile computing strategy and establish a wireless connectivity capability to the district network; add Internet access and network capacity; add educational and Microsoft software licenses; purchase and install assistive technology at all grade levels; add technology support resources.

B. Goals and Objectives (July 2010 - June 2013)

Goal 1 Students will progressively acquire technology and information literacy skills.

Objectives

Grade and subject curricula will expose students to the appropriate technology tools as part of the instructional plan. Students will acquire technology and information literacy skills as they learn to use and apply the technology resources of the district. Student progress will be assessed and reported against the Technology Literacy Standards.

Goal 2 Staff will acquire the knowledge and skills to effectively utilize technology to assist student achievement.

Objectives

The district administration, professional development committee and staff will coordinate strategies for assessing the effectiveness of technology training. Staff mentoring and knowledge sharing will continue to promote the effective use of the district technology resources in their instructional practices.

Goal 3 Integrate the use of technology into the district curriculum at all grade levels.

Objectives

The district vision is to “infuse technology into the curriculum”; therefore, an integrated approach to the use of technology in the curricula has always been taken.

Goal 4 Students and staff will have access to the district technology resources in all learning environments.

Objectives

Upgrades, improvements and enhancements to the district technology resources will eliminate barriers to access. The district’s implementation of a Terminal Server/Thin Client computing environment has created an “anytime and anywhere” capability for access to information and software applications, while reducing the “Total Cost of Ownership” for these resources.

Goal 5 District will maintain and enhance the technology infrastructure as a secure and cost effective means of accessing and communicating information.

Objectives

The district will maintain and enhance the technology infrastructure and facilities to provide an adequate level of reliability and the capacity for growth. Network firewalls, user security, content filtering and computer virus protection will all be part of security provisions to safe guard the access to and communication of information. Application of “Total Cost of Ownership” analysis will be used to determine cost effectiveness of technology expenditures.

Goal 6 Provide assistive technology resources to all grade levels.

Objectives

The district will provide assistive technology to all grade levels, in order to accommodate student needs and facilitate student achievement.

V. Three-Year Implementation Strategies

Goal 1 Students will progressively acquire technology and information literacy skills.				
	Objective/Activity	Timeline	Responsibility	Evaluation
	Students will have equitable access to resources for becoming proficient in the use of technology	Yearly	Principals, Staff, TC	Inventories, Computer Classroom schedules, Technology Resource schedules
	Assess Student "Digital Portfolio" for determining student technology literacy	Ongoing	Principals, Staff, TC	Student Folders, Storage Utilization
	Report 8 th Grade Student proficiency in meeting Technology Literacy Standards	Annually	Principal, Staff, TC	Student Folders, NJSMART data submission
	All District Students will abide by district standards & policies	Ongoing yearly	BOE, CSA, Principals, Staff, Students	District Policies, AUP Student Contracts

Goal 2 Staff will acquire the knowledge and skills to effectively utilize technology to assist student achievement.				
	Objective/Activity	Timeline	Responsibility	Evaluation
	Staff development and collaboration opportunities focusing on technology will be offered	Annually	CSA, Principals, Staff, TC Professional Development Committee	Schedules, Attendance records
	Supervision & evaluation practices will address the effective use of technology	Annually	CSA, Principals, Staff	Evaluation records
	Develop assessment strategies for determining the effectiveness of Staff training	2011	CSA, Principals, Professional Development Committee, Staff	Surveys, Evaluation records
	Technical resources will be maintained to offer timely support	Ongoing Yearly	BOE, CSA, TC	Work Order Tracking Technology Staff records Support /Service agreements
	All District Staff will abide by district standards & policies	Ongoing Yearly	BOE, CSA, Principals, Staff	District Policies, AUP

Goal 3 Integrate the use of technology in the district curriculum at all grade levels.				
	Objective/Activity	Timeline	Responsibility	Evaluation
	Verify the use of technology in all subject areas at each grade level	2013	BOE Curriculum Committee CSA, Principals, Staff	Evaluations, Staff and Student Folders
	Evaluate NJTAP-IN resources for use in assessing technology integration in the curriculum	2012	BOE Curriculum Committee CSA, Principals, Staff	Administrative reports
	Evaluate NJTAP-IN resources for use in assessing technology proficiency	2013	BOE Curriculum Committee CSA, Principals, Staff	Administrative reports

Goal 4 Students and staff will have access to the district technology resources in all learning environments.				
	Objective/Activity	Timeline	Responsibility	Evaluation
	Evaluate Virtualization Technology for expanding District Network capacity	2010	TC	Administrative Reports
	Upgrade District Network capacity	2010-2013	BOE, BA, Administrators, TC	Administrative Reports, Annual Budget, Inventory Records
	Replace/Upgrade computer lab workstations	2010-2013	BOE, BA, TC	Inventory Records, Purchase Records
	Implement Video Streaming capability for presentation of Instructional Content	2011	Administrators, TC, Staff	Inventory Records, Purchase Records, Service Agreement

Goal 5 District will maintain and enhance the technology infrastructure as a secure and cost effective means of accessing and communicating information.

Objective/Activity	Timeline	Responsibility	Evaluation
Implement Network Access Control (NAC) security system	2010-2011	TC	Operation metrics, Purchasing records
Upgrade existing network facilities using port teaming/bonding techniques	Phased 2010-2013	BOE, BA, Administrators, TC	Inventories, Purchasing records
Improve Internet/Broadband Connectivity	2010-2011	BOE, BA, Administrators, TC	Operation Metrics ISP service subscriptions
Migrate District Website content & Email to a Content/Learning Management System	2010-2011	Administrators, District Webmaster, TC	District Website, CMS\LMS service subscription
Open Parent/Student portal to Student Information System	2010-2011 BIS 2011-2012 BLES	BOE, CSA, Principals, Staff, TC	Administrative Reports, Student Information System
Evaluate utilization of Open Source software to reduce TOC	2010-2011	TC, Principals, Staff	Administrative Reports
Replace District Phone system with fault tolerant unified communications system	2010	BOE, CSA, Principals, TC	Inventories, Purchasing records, Service Agreement

Goal 6 Provide assistive technology resources to all grade levels.

Objective/Activity	Timeline	Responsibility	Evaluation
Evaluate the assistive technology needs of the district	Annually	CST, Administrators, TC	Administrative Reports
Develop grade level implementation strategy for assistive technology	2012	CST, Administrators, TC	Administrative Reports
Expand availability of assistive technology resources	2010-2013	CST, Administrators, TC	Purchasing and Inventory records

A. Three-Year Technology Plan Inventory Table (2010-2013)

Area of Need	2010-2011	2011-2012	2012-2013
Technology Equipment	Maintain Existing Inventory. Add Internet bonding/linking, filtering, and monitoring capability	Replace/Add Computer Classroom Thin Client workstations. Add Terminal Server capacity.	Replace/Add Computer Classroom Thin Client workstations. Add Terminal Server capacity
Network Capacity	Add Network Port Bonding/Teaming capability	Maintain	Maintain
Filtering Software	Maintain Service Levels	Maintain Service Levels	Maintain Service Levels
Support Plans	Annual Service Contracts	Annual Service Contracts	Annual Service Contracts
Telecommunications Services	Add Internet access capacity	Maintain Service Levels	Maintain Service Levels
Technical Support	Maintain Support Resources	Maintain Support Resources	Maintain Support Resources
Facilities Infrastructure	Maintain	Maintain	Maintain
Software Licensing	Add Remote Access Licenses. Add Open Source Software	Add Video Streaming Add Open Source Software	Maintain Software and Security Licensing

Funding Plan (July 2010 – June 2013)

B. School Year 2010 – 2011

Technology Instructional Equipment & Supplies —Computer/Network equipment & supplies	\$22,000
Network/Internet Equipment	\$10,000
Network Upgrades	\$5,000
LCD Projector Supplies	\$5,000
Miscellaneous Supplies	\$2,000
Technical Services - internet, maintenance, support, security, etc.	\$80,675
Data Circuits & ISP Service	\$ 13,000
Website Hosting - Annual Subscription	\$6,000
Email Hosting & Service	\$3,200
Internet Content Filtering Service	\$1,000
Internet & Network Firewall Security	\$825
District Information Systems Annual Support	\$21,650
Network Systems Annual Support	\$25,000
Server Systems Annual Support	\$10,000
Technology Software Licenses - Computer OS, applications, antivirus, educational	\$19,600
Computer OS & Application software – Microsoft Annual Volume License Cost	\$7,000
Network & Computer Security - Annual License Cost	\$2,100
ERate Services	\$2,500
Ericom Terminal Server Client License Cost	\$8,000
Technical Support - staff, services, etc.	\$126,642
Technology Administration, Planning & Management	\$17,250
Systems Maintenance	\$11,500
User Support & Training	\$97,892
TOTALS (Local operating funds and/or grants, NCLB Title 2A, E-Rate)	\$ 248,917

C. School Year 2011 – 2012

Technology Instructional Equipment & Supplies —Computer/Network equipment & supplies	\$29,800
Thin Client Workstations	\$18,000
Video Streaming Server	\$4,800
LCD Projectors Bulbs	\$5,000
Miscellaneous Supplies	\$2,000
Technical Services - internet, maintenance, support, security, etc.	
	\$85,675
Data Circuits & ISP Service	\$ 13,000
Website Hosting - Annual Subscription	\$6,000
Email Hosting & Service	\$3,200
Internet Content Filtering Service	\$1,000
Internet & Network Firewall Security	\$825
District Information Systems Annual Support	\$21,650
Network Systems Annual Support	\$25,000
Server Systems Annual Support	\$15,000
Technology Software Licenses - Computer OS, applications, antivirus, educational	
	\$21,600
Computer OS & Application software – Microsoft Annual Volume License Cost	\$7,000
Network & Computer Security - Annual License Cost	\$2,100
ERate Services	\$2,500
Ericom Terminal Server Client License Cost	\$10,000
Technical Support - staff, services, etc.	
	\$131,628
Technology Administration, Planning & Management	\$17,940
Systems Maintenance	\$11,960
User Support & Training	\$101,728
TOTALS (Local operating funds and/or grants, NCLB Title 2A, E-Rate)	\$ 268,703

D. School Year 2012 – 2013

Technology Instructional Equipment & Supplies —Computer/Network equipment & supplies	\$31,000
Thin Client Workstations	\$24,000
LCD Projectors Bulbs	\$5,000
Miscellaneous Supplies	\$2,000
Technical Services - internet, maintenance, support, security, etc.	
	\$91,650
Data Circuits & ISP Service	\$ 13,000
Website Hosting - Annual Subscription	\$6,000
Email Hosting & Service	\$3,500
Internet Content Filtering Service	\$1,500
Internet & Network Firewall Security	\$1,000
District Information Systems Annual Support	\$21,650
Network Systems Annual Support	\$25,000
Server Systems Annual Support	\$20,000
Technology Software Licenses - Computer OS, applications, antivirus, educational	
	\$22,500
Computer OS & Application software – Microsoft Annual Volume License Cost	\$7,000
Network & Computer Security - Annual License Cost	\$3,000
ERate Services	\$2,500
Ericom Terminal Server Client License Cost	\$10,000
Technical Support - staff, services, etc.	
	\$136,613
Technology Administration, Planning & Management	\$18,630
Systems Maintenance	\$12,420
User Support & Training	\$105,563
TOTALS (Local operating funds and/or grants, NCLB Title 2A, E-Rate)	\$ 276,763

VI. Professional Development

Provisions for staff development are made within the district's school budget each year. Those provisions included in-service training, workshops and online resources to allow local staff to participate in and provide staff development.

In-service workshops and collaboration time encourage our staff to share instruction on technology applications with their colleagues. Current vendors also fulfill roles as a research resource for information on instructional technology applications and electronic portfolio capabilities for aligning instructional materials with district curricula and corresponding NJ State standards.

The district intranet and email is used for posting administrative information to and from the staff, as well as, facilitating communication between all district staff members. Instruction in this area focuses on completing administrative tasks via the district intranet, email and student information system. Administrative staff is trained on creating and updating school memorandum, forms, notices, etc. on the district intranet. This alleviates the need to produce "hard copy" of posted materials for every staff member.

These resources have enabled the district to maximize electronic communication for administrative purposes and now provide a system of communication between home and school. This has enhanced teacher/parent communication that is often difficult with today's schedules.

Continuing education credit hours are awarded to members of the staff who have successfully completed approved classes and/or courses.

The Technology Committee recommends that technology training needs be assessed by the district Professional Development Committee. This will make for a coordinated effort in determining the most effective methods of providing training. Teaching staff desires more "hands on" time with technology, plus opportunities for staff collaboration and mentoring. Development opportunities need to be ongoing through out the school year and not limited to in-service day workshops. Curriculum planning and review remains an ongoing task to ensure that technology is integrated into the instructional process and the needs for student technology literacy skills are addressed.

VII. Evaluation Plan

The District Technology Plan must be viewed as a plan for systematic changes. The progression from where we are, to where we want to be, will undergo a constant review. Built into that review will be an established process that shares the entire technology plan with the staff and affords them the opportunity to react to any and all parts of the plan. Each grade level will be asked for feedback on activities conducted that year. The administration will review the staff input regarding the status of these activities and evaluate the district's progress.

- July - Annually - Funding will be assessed for prioritization of the technology expenditures planned for the school year.
- Sept - Annually - The staff will be informed of the technology activities planned for the school year.
- April - Annually - The administration will solicit staff input, evaluate the District's progress and, if necessary, adjust the technology plan accordingly.
- May - Annually - NJDOE Technology survey will be completed.
- June - Annually - NJSMART Student data submission will report the on the technology proficiency of the District's 8th Grade.