

**Three-Year Local School District/Charter School
Technology Plan**

July 1, 2010 through June 30, 2013

County: Morris

County Code: 1190

District/Charter School or Affiliation: East Hanover Township
Schools

District Code: 27

Grade Levels: K-8

Web Site: www.easthanoverchools.org

**Date Technology Plan approved by school board or
governing body**

**Is the district compliant with the Children's Internet Protection
Act (CIPA)? (Y/N) Yes**

**Please indicate below the person to contact for questions regarding
this technology plan:**

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Title: Director of Technology

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Signature: _____ **Date:** _____

Superintendent/ Lead Person Approval:

District Superintendent/ Lead Person: Mr. Joseph L Ricca

E-mail: jricca@easthanover schools.org

Phone: 973-887-2112 x 110

Signature: _____ **Date:** _____

County Coordinating Council Approval:

Lead Agent: (print) _____

Title: _____

E-mail: _____

Phone: _____

Signature: _____ **Date:** _____



**East Hanover
Township
Schools**



**District
Technology Plan
2010-2013**

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I. Stakeholders

The following were members of the 2010-2013 Year Technology Plan Committee:

Superintendent	Mr. Joseph L Ricca	_____
EHMS Principal	Mr. Richard Mangil	_____
Central School Principal	Ms. Melissa Falcone	_____
Frank J. Smith Principal	Ms. Kerry Quinn	_____
Director of Curriculum	Mr. Lawrence Mendelowitz	_____
Director of Technology	Ms. Stacie Costello	_____
Teacher	Mr. Shawn Stewart	_____
Teacher	Mrs. Eve Caputo	_____
Teacher	Mr. Kevin Stahl	_____
Librarian	Ms. Valerie De Angelo	_____
Special Ed. Teacher	Mrs. Debbi Wilson	_____
Media Specialist	Ms. Debra Dennis	_____
Technology Teacher	Ms. Michele Savvides	_____
BOE Member	Mr. Sean Sullivan	_____
Parent	Mr. Mike Reinknecht	_____
Parent	Mrs. Teresa La zur	_____
Network Specialist	Mr. James Gonzalez	_____

II. Executive Summary

District Mission Statement - The mission of the East Hanover School District is to prepare our young people to be positive, contributing members of society. Through a diversified curriculum which incorporates the expectation that all students achieve the New Jersey Core Curriculum Content Standards (NJCCCS) at all grade levels and a school environment that fosters self-esteem, independent thinking, and respect for individual differences, we provide our students with the skills and experiences necessary to assist them in achieving their fullest potential as unique individuals and to meet the challenges of life.

Technology Curriculum Philosophy - The benchmarks and skills addressed in our technology curriculum are introduced and formally taught through Technology classes provided to our students in a lab by a technology teacher. However, for application of the skills to become meaningful and useful for students, they **must** be reinforced through practical application in the classroom. Unlike other disciplines, the skills taught through our technology classes can and **must** be infused through **every** other content area taught by classroom and special area teachers. This is best achieved through real world, problem-based learning. Technology teachers will support the infusion of these skills by keeping teachers informed about what is being taught and through suggestions for application to classroom themes and topics.

III. Technology Overview

A. Technology

Inventory

The East Hanover Township School district serves approximately 1200 students in grades Pre-School through 8. These students attend two elementary schools and one middle school. As the district is in the GH factor group, it is not often eligible for grants based on need and receives no Title 1 funding.

Network Summary

East Hanover operates a Local Area Network (LAN) in each school (Frank J. Smith, Central, and Middle School), and a Wide Area Network (WAN) interconnecting the schools and the Board Office.

Each school and the Board Office operate a Local Area Network (LAN). The network topology is 100 Mbps Ethernet. The network infrastructure consists of Dell PowerConnect switches running at 100 Mbps over Cat. 5e cable. New Cat. 5e cabling was recently installed (September 2006) and certified for all circuits in the

Board Office. Cabling was recently upgraded (November 2006) at Frank J. Smith, Central School, and Middle School. All circuits were tested, and circuits that failed Cat. 5e cable certifications were replaced. Over the 2010-2013 technology cycle, East Hanover hopes to migrate to switches with 1,000 Mbps (Gigabit) uplink to our servers and Gigabit network cards in all of our servers. The transition to Gigabit will occur through an evergreen approach, as servers are replaced as part of planned obsolescence, new hardware will be purchased with Gigabit network cards. Network switches will be transitioned to switches with Gigabit uplink ports between wiring closets. Wireless access points will be installed at all schools and the Board Office.

Each school and the Board Office operate Windows 2003 servers sharing a common domain. Windows 2003 domain controllers were installed at Frank J. Smith, Central, and the Board Office to decrease vulnerability to WAN failure. Applications that were previously run across the wide area network were decentralized to improve response time, decrease WAN traffic, and allow the individual school networks to operate independently in the case of a WAN outage. Server uptimes/reliability were enhanced by moving servers to more secure locations, stabilizing environmental factors, and replacing UPS batteries.

Frank J. Smith, Central School, and the Board Office each operate a Windows 2003 server. Each server operates as a domain controller, file/print server, and applications server.

Middle School operates a Windows 2003 domain controller, and a separate Windows 2003 file/print, and applications server. Email service is hosted using Microsoft Exchange 2003 on a server at the Middle School. The mail server will be replaced as part of the 2007-2010 technology cycles. An Ironport anti-spam/anti-virus filter is currently being used to provide spam filtering to the district e-mail.

East Hanover Schools operates a Wide Area Network (WAN) network provided by Cablevision. Each school and the Board Office has a cable modem circuit installed which provides a bandwidth of 5 Mbps download and 2 Mbps upload. Cablevision provides a Virtual Private Network (VPN) linking the schools and Board Office, and manages all routing and firewall services.

Elementary Schools

At each of the two elementary schools, classrooms are equipped with at least one Internet ready multi-media computer per classroom that accesses the World Wide Web. There is one computer lab of approximately 25 computers per building. There is also access to a computer cart containing 25 wireless laptops. A laptop and a projector on a cart are available for each grade level. The computers are imaged with age-appropriate software. Students receive computer instruction as part of a 6 day cycle for the school year in all grades K-5. The lab is available during open

periods for teachers to schedule and bring their classes to utilize technology resources.

There are centralized laser printers in both buildings and some classrooms are equipped with individual inkjet printers that we are currently phasing out to improve efficiency of the network assistant as well as cost of ink. There is one high-quality centralized color laser printer per building that can be accessed for printing of final projects.

The Media Center in each school uses a networked on-line card catalogue and circulation system. Both media centers have high-speed internet access, multimedia computers for student access and one for the media specialist access to OPAC.

Middle School

At our district's middle school, classrooms are also equipped with at least one Internet ready multi-media computer per classroom that accesses the World Wide Web. There is one permanent computer lab of approximately 25 laptop computers in the building. The laptop computers are imaged with age-appropriate software. Sixth grade students receive computer instruction as part of a 30 day cycle. This lab is also available during open periods for teachers to schedule and bring their classes to utilize technology resources. Additionally, teachers have the ability to utilize one of two Wireless Mobile Laptop Carts, which are signed out and brought to the classroom for student use.

There are centralized laser printers throughout the building. There are two high-quality centralized color laser printer that can be accessed for printing of final projects. There are seven projectors on carts with wireless laptops that are signed out for student and teacher use in the classroom.

District

Each teacher is assigned a district e-mail account and is responsible to adhere to Board of Education Policies in its use.

Each school's main office and all administrative offices are connected to the district server for district/school level access to the student management system. Classroom computers are also networked to provide teacher level access to the system. Using remote access, administrators and secretaries use the district's financial application and District Special Education staff has remote and/or web access to Individualized Education Plan Software.

A complete inventory was completed in March of 2010. Table A represents the basic findings from that data collection. A complete inventory is attached as Appendix A.

Schools	Computers	Laptops	Computer Labs	Classrooms	Library/Media Centers	Administrative Offices
Frank J Smith School	115	6	23	77	2	7
Central School	115	25	27	93	4	7
East Hanover Middle School	179	30	30	110	3	6
District School Total	409					

Telecommunication

The telecommunication needs of the district are served by 2 different systems. At the Board of Education Office, a Merlin Legend System is in operation. The district schools have a Lucent Partner system. There are 10-15 phones per location with 4-7 lines available for communication. This is an extremely old system that we are hoping to upgrade in the future.

District Integration of Assistive Technology

The district has procured hardware and software to meet the needs of varying levels of students. Software titles including Kurzweil and Clicker use voice recognition and other strategies to help students achieve success. Several computers have been equipped with touch screens for students that are unable to use a traditional keyboard. The Edmark Reading Series is used by several students. It combines proven instructional design with a rich, multi-sensory learning environment to support each student's learning style, guiding them to success.

Most classrooms are fashioned with surround sound systems. This form of technology allows all students preferential seating no matter where they are in the classroom. Alpha Smarts are provided to students via their IEP to facilitate writing development.

Accessibility of Website

The new and improved East Hanover Township Schools website has been designed for ease of navigation and use by all members of the public who wish to access it. The documents contained on the site are well organized and readable. Should the user choose to use speech recognition software, the text on the pages would be easily readable and understandable. There are no timed responses or pages that which require mandatory online completion.

Obsolescence Plan

East Hanover Schools follow a general four year replacement cycle for all computers. An evergreen approach is adopted within the four year cycle, meaning that approximately 25% of all computers will be replaced each year. Since the state of technology is in constant flux the general four year policy may be increased or decreased in any given year based upon the following obsolescence criteria.

East Hanover Schools defines an obsolete computer as a computer that fits within the criteria outlined below:

- A computer will be considered obsolete when it can no longer run required applications due to operating system prerequisites.
- A computer will be considered obsolete when it can no longer run required applications due to hardware restrictions.
- A computer will be considered obsolete when it can no longer run the required applications with reasonable performance.
- A computer will be considered obsolete when the highest revision of an Operating System it can run is no longer supported by the manufacturer.
- A computer will be considered obsolete when the cost of repairs exceeds 1/3 of its replacement cost.

B. Cyber Safety

Filtering Method

The East Hanover Township Schools filtering software is supplied by our Internet provider, Cablevision. The filtering program used allows the Director of Technology to block or unblock sites on an as needed basis.

Acceptable Use Policies

All students and teachers are bound by Board of Education Policy 2361-ACCEPTABLE USE OF COMPUTER NETWORK/ COMPUTERS AND RESOURCES.

“ The school district is in compliance with the Children’s Internet Protection Act and has installed technology protection measures for all computers in the school district, including computers in media centers/libraries, that block and/or filter visual depictions that are obscene as defined in Section 1460 of Title 18, United States Code; child pornography, as defined in Section 2256 of Title 18, United States Code; are harmful to minors including any pictures, images, graphic image file or other visual depiction that taken as a whole and with respect to minors, appeals to a prurient interest in nudity, sex, or excretion; or depicts, describes, or

represents in a patently offensive way, with respect to what is suitable for minors, sexual acts or conduct; or taken as a whole, lacks serious literary, artistic, political, or scientific value as to minors.

The school district will certify on an annual basis, that the schools, including media centers/libraries, in the district are in compliance with the Children's Internet Protection Act and the school district enforces the requirements of this policy."

All students from grades K-8 are required to read and sign an Acceptable Use Policy (AUP) at the start of each school year. The AUP is explained to the students by the Technology Teachers at each building and then disseminated to the students. Returning the AUP is mandatory before being given access to using any of the district's technology resources. (Appendix B).

The current AUP will be reviewed and revised during this 2010-2013 Technology Plan.

Describe the district's Internet safety policy that addresses the:

a. Technology protection measures that protect against access through computers with Internet access to visual depictions by adults or minors that are: obscene, child pornography or harmful to minors:

The district provides access to computer network/computers for educational purposes only. The district retains the right to restrict or terminate pupil access to the computer network/computers at any time, for any reason. The district retains the right to have district personnel monitor network activity, in any form necessary, to maintain the integrity of the network and ensure its proper use.

Any individual engaging in the following actions when using computer networks/computers shall be subject to discipline or legal action:

i. Using the computer network(s)/computers for illegal, inappropriate or obscene purposes, or in support of such activities. Illegal activities are defined as activities that violate federal, state, local laws and regulations. Inappropriate activities are defined as those that violate the intended use of the network. Obscene activities shall be defined as a violation of generally accepted social standards for use of publicly owned and operated communication vehicles.

ii. Using the computer network(s)/computers to violate copyrights, institutional or third party copyrights, license agreements or other contracts.

iii. Using the computer network(s) in a manner that:

1. Intentionally disrupts network traffic or crashes the network;
2. Degrades or disrupts equipment or system performance;
3. Uses the computing resources of the school district for commercial purposes, financial gain or fraud;
4. Steals data or other intellectual property;
5. Gains or seeks unauthorized access to the files of others or vandalizes the data of another user;
6. Gains or seeks unauthorized access to resources or entities;
7. Forges electronic mail messages or uses an account owned by others;
8. Invades privacy of others;
9. Posts anonymous messages;
10. Possesses any data which is a violation of this policy; and/or
11. Engages in other activities that do not advance the educational purposes for which computer networks/computers are provided.

b. Process for educating minors about appropriate online behavior, including interacting with other individuals on social networking websites and in chat rooms, and cyberbullying awareness and response, as required by the Protecting Children in the 21st Century Act:

The school district is in compliance with the Children's Internet Protection Act and has installed technology protection measures for all computers in the school district, including computers in media centers/libraries, that block and/or filter visual depictions that are obscene as defined in Section 1460 of Title 18, United States Code; child pornography, as defined in Section 2256 of Title 18, United States Code; are harmful to minors including any pictures, images, graphic image file or other visual depiction that taken as a whole and with respect to minors, appeals to a prurient interest in nudity, sex, or excretion; or depicts, describes, or represents in a patently offensive way, with respect to what is suitable for minors, sexual acts or conduct; or taken as a whole, lacks serious literary, artistic, political, or scientific value as to minors.

4. Dates when the school district provided the community with public notice and a hearing to address proposed Internet safety policies adopted by the school district pursuant to CIPA:

The school district certifies on an annual basis, that the schools, including media centers/libraries, in the district are in compliance with the Children's Internet Protection Act and the school district enforces the requirements of this policy. The district provided hearing dates on October 22, 2010.

C. Needs Assessment

1. Complete a needs assessment for educational technology in your school district or charter school. Begin by determining current status. Afterwards, determine the educational needs, prioritize the identified needs and plan for necessary changes through goals and objectives.

a. Evaluate educators' current practice in integrating technology across the curriculum:

Several teachers are proficient in SMART Board use and daily integration of technology for presentation purposes. A large percentage of teachers integrate additional technology into their presentations or lessons. Many teachers have participated in professional development activities related to educational technology to allow for increased proficiency. Overall, our staff's current practice in utilizing technology is improving. Many are using the equipment and connectivity that we currently have to its capacity.

b. Provide a summary of educators' proficiency in the use of technology:

Although our teaching staff feels proficient in many areas of technology, actual classroom use is not at the same levels. Needs assessment results are included in the Appendix C.

c. Determine the current educational environment and barriers by describing how:

i. Educators are assured access to technology to facilitate technology integration.

Staff comments reflect both a need to fix technology problems and a need for additional training in the use of technology in the classroom; personal abilities of these types do not seem to be problematic given the responses. Other barriers exist as well including lack of adequate support, political issues surrounding use of technology, and difficulty in adapting teaching styles to modern environments and 21st century students.

ii. How often students have access to technology to support the use of 21st century skills in their learning environments:

Students have access to a computer lab during the school day as well as the library media center before, during and after school. Specifically, computers in these locations are "free" for student use when there are no classes being held in these locations. Most of our students have modern computers with reliable Internet access at home; the library loans laptops to students in the event of a computer emergency or to students without such

access. All classrooms are wireless for Internet access and all have an Internet/network port in them. All classrooms have computers or laptops.

iii. How the needs of educators are evaluated:

A recent faculty survey related to technology formally evaluates staff technology or related needs on a biennial basis (results listed in Appendix C). Staff comments on this survey were very useful and will be addressed through our Professional Development Plan. Needs assessments beyond those minimally required by the state are most likely necessary for actual planning and evaluation of programs.

iv. How the needs of students are evaluated:

A recent student survey related to technology formally evaluates student technology or related needs (results listed in Appendix D). Student responses on this survey provided us with information that will allow us to make adjustments to our technology curriculum which is due for revision during this technology plan.

v. Past professional development addressed the educators' and students' needs for technology integration:

Professional development has taken place in a number of areas of technology with an eye towards technology integration. Workshops have been offered. Word, PowerPoint, Wikis, SMARTboard, United Streaming, technology sharing circles, and e-mail are some of the district workshops offered to help integrate technology into the classroom and to improve teachers use and students' exposure to new levels of technology integration. Additionally, staff members have utilized the resources of the ETIC for SMARTboard workshops, and office applications workshops designed to support classroom activities.

vi. Past professional development for all administrators to further effective use of technology in the classroom or media center:

Our building administrators are keenly aware and support efforts to further effective use of technology in the classroom or media center by budgeting, purchasing, installing, replacing, and repairing hardware and software and by providing coverage and support for teachers to continue technology training.

vii. Ongoing, sustained professional development was provided in 2009-10 for all educators to further the effective use of technology in the classroom or media center:

Professional development time has been partially dedicated towards training for teachers on using the technology available. Ongoing training was available to teachers interested in learning Word, PowerPoint, Wikis, SMARTboard, and United Streaming. District staff was also invited to participate in technology sharing circles where teachers were able to share best practices related to technology with one another. Other individualized sessions were provided to staff on an as-needed basis.

viii. Ongoing, sustained professional development was provided in 2009-10 for all administrators to further the effective use of technology in the classroom or media center.

See section vii, above.

ix. Supports were provided for staff other than professional development.

Staff, media specialists, and administrators within the district, as well as the District Computer Specialist provide this support on an ongoing basis.

x. Professional development needs and barriers related to using educational technology as part of instruction have been identified.

An ongoing challenge in implementing the educational technology professional development is budgetary constraints. Also, the time available for teachers and administrators to apply new skills and develop new curricular instruction is an additional barrier.

2/3. The prioritized needs of the district to improve academic achievement for all students through the integration of technology are:

- A. Teachers and administrators will be able to increase the levels of technology presentation and integration to improve the effectiveness of the delivery, implementation, and evaluation of curriculum and the efficiency of school operations.
- B. Technology resources available to educators and students shall improve to include hardware and software resources that provide greater connectivity, enhance communication, and provide opportunities for increased sharing of files and resources.

C. Professional development opportunities shall continue to be enhanced through the creation of teacher technology trainers to provide targeted support and instruction to teachers who desire to infuse technology into their curricular activities.

IV. Three Year Goals and Objectives

A. History

The following goals and objectives are taken from the 2007-2010 Technology Plan. Below each goal is a brief update on the progress made to date.

Goal Statement One – Learning for the 21st Century

All students and teachers shall have equal equity of access to the technological resources of each school and shall utilize the resources to:

- Achieve the NJCCCS and NEIS for students
- Enhance learning in all areas of the curriculum
- Use technology to research, evaluate, and process information
- Expand communication and learning beyond the physical boundaries of the district
- Develop the critical thinking and problem-solving skills needed for life-long learning in the 21st century

Objective 1.1

Provide students with classroom opportunities to use a variety of technologies to demonstrate mastery of established technology skills in line with the EH Technology Scope and Sequence.

Objective 1.2

Provide staff with instruction in the use of appropriate technology integration methods i.e. Problem-based Learning, Kidspiration.

Objective 1.3

Provide Middle School students with instruction and facilitation of the TechYes Program to ensure that all students are technologically literate by 8th grade.

Update

During the 2007-2010 school years the K-5 Technology curriculum was implemented by the building Technology Teacher.

During the duration of the former plan, the district purchased several software programs and subscriptions that were introduced to improve student achievement. Neighborhood Map Machine, Enchanted Learning, Kidspiration, Inspiration, United Streaming, Brain POP and Brain POP Jr., and Ed Helper are some examples of programs purchased for student and teacher use.

The district utilized and provided training in the use of the free online assessment tool Leamia. This software portal will provide the teachers with data to address the learning needs of all students at the 3-8 grade levels. The Middle School is

continuing to integrate the online textbooks/cd-roms as part of all curriculums. All school media centers are equipped with new online record keeping.

Goal Statement Two – Adequacy of Educational Resources

Maximize access for every student in East Hanover Township schools regardless of gender, race, national origin, special needs or religious affiliation.

- Allow ease of use of communications
- Provide access to appropriate county, state, national, and international distance learning resources
- Are age-appropriate, compatible, and easy to maintain
- Are supported by adequate technological expertise and financial resources

Objective 2.1

Provide adequate staffing and financial resources to support for technology maintenance and to support teaching staff and students.

Objective 2.2

Research and consider the implementation of remote access to district applications for staff and students.

Objective 2.3

Continue to widen and strengthen availability of mobile (laptops, SmartBoards) and assistive technology resources throughout the district.

At the onset of the 2007-2008 school year, The East Hanover School District contracted the services of an outside Technology support provider. This agency brought the infrastructure, hardware and operating systems up to date in a consistent and timely manner.

The East Hanover School District provided staff and parents with the opportunity to access student records, homework and grades from any computer with internet access through online services such as SII, Wikis, Blogs, Schoonotes.com and other teacher created online resources

During the 2007-2010 school years all 3 district schools obtained mobile laptops carts and SMARTBoards. The district continued to use the Sound Field Systems to provide assistive technology to hearing impaired students and students with other special needs.

Goal Statement Three – Staff Development

Continue to provide staff training that will ensure equal opportunity for all users to develop technology skills.

Objective 3.1 Share services with surrounding districts to provide articulated high-level professional development opportunities for a variety of learners, on a variety of topics including technology.

Objective 3.2 Include a Technology Self Assessment as part of teacher PGP and note progress on observations/evaluations.

Objective 3.3 Add a technology integration section to Teacher Portfolios

The East Hanover Township School District continued to share services with surrounding district through workshop offerings during professional development days along with continued membership as part of the Educational Technology Training Center (ETTC.) . Staff had the opportunity to articulate and share best practices in a variety of technology topics.

During the 2007-2010 school years staff were encouraged to integrate technology components within their instructional practices.

Teachers worked with administrators and technology lead personnel in each school to create portfolio artifacts demonstrating the use of technology in their classrooms.

B. Goals and Objectives for 2010-2013

In meeting and discussing the goals listed in the 2007-2010 plan, it was apparent to all committee members that the general goals addressed in that plan are integral to any school's technology integration success. These goals are in line with the NEIS guidelines, NJCCCS as well as the State of NJ Technology Plan. We, therefore, have elected to keep very similar goals with substantial changes made to the wording and objectives. Listed below are our 2010-2013 goals as well as a timeline for implementation. The committee recognizes that with the uncertainty of funding and needs in other areas for the future, these goals and timelines are to be used as a guide, but may need to be adjusted due to circumstances beyond our control.

Goal Statement One- Learning for the 21st Century

All students will be prepared to use 21st Century skills to meet and exceed the learning standards set forth in the NJ Core Curriculum Content Standards and the National Educational Technology Standards (NETS).

Objective 1.1

Continue to provide, implement and explore new technologies such as but not limited to Wikis, Blogs, SMARTBoards, laptops, email, social networking, cloud computing etc.

Objective 1.2

All students will demonstrate proficiency at analyzing, synthesizing and evaluating information using contemporary technology tools.

Objective 1.3

Continue to emphasize responsible usage of technology resources, copyright and netiquette.

Goal Statement Two – Adequacy of Educational Resources

Technological resources of the East Hanover School District shall be equally available to students and staff as a resource tool for instructional purposes.

Objective 2.1

Continue to allocate staffing and financial resources to support teaching staff and students.

Objective 2.2

Improve and maintain infrastructure to allow for barrier free and equitable technology access.

Objective 2.3

Continue to widen and strengthen the availability of various technological resources designed to enhance and supplement classroom instruction and student learning.

Goal Statement Three – Staff Development

The District shall work collaboratively throughout the duration of the 2010-2013 Technology Plan with other school districts and organizations including its constituent sending districts to provide such staff development opportunities that shall be directed toward:

Objective 3.1

Share services with surrounding districts to provide articulated high-level professional development opportunities for a variety of learners, on a variety of topics including technology.

Objective 3.2

Maintain an awareness of current trends and instructional methodology relating to subject matter.

Objective 3.3

Cross-disciplinary planning and curriculum development will include a technology component according to the New Jersey Core Curriculum Content Standards.

V. Three Year Implementation Activity Tables (July 2010-June 2013)

Three-Year Technology Implementation Activity Table				
Goal/ Objective	Strategy/ Activity	Time line	PARTICIPANTS	Documentation
Objective 1.1	Provide support and training for staff in areas of current trends.	2007-2010	Director of Technology Staff Trainers Staff Members	Listed in Goals/ Evaluations
Objective 1.2	Teachers will use projects to assess students' technology proficiency.	2010-2013	Teachers	Principal review of lesson plans
Objective 1.3	Consistently review the AUP throughout the school year.	2010-2013	Technology Teachers Media Specialist Staff Members	Listed in Goals/ Evaluations
Objective 2.1	Develop a technology budget with the goal of providing staff with updated technology through grant applications.	2010-2013	Director of Technology	Listed in Goals/ Evaluations
Objective 2.2	Maintaining a technology support staff.	2010-2013	Administration, BOE	Personnel Minutes
Objective 2.3	Continue to provide SMART Boards for all classrooms and upgrade hardware software and peripherals.	2010-2013	Director of Technology	Formal written proposal from Network Administrator
Objective 2.3	Plan and budget for mobile/assistive applications.	2010-2013	Director of Technology Special Services	Budget Worksheets
Objective 3.1	Provide opportunities for articulation between key technology personnel and tum-key trainers. within our neighboring districts.	2010-2013	Administration	Professional Development Plan
Objective 3.2	Provide opportunities during district professional development time to introduce and support relevant electronic resources.	2010-2013	Administration	PGP
Objective 3.3	Note progress on technology integration on Observations/ Evaluations	2010-2013	Administration	Observations/ Evaluations

VI Funding Plan 2010

(July 2010-June 2013)

The large majority of all district resources for the annual school budget come from local funding. The only state/federal funding has been through limited E-RATE support. At times monies from the NCIB grant have been used to support technology goals. Additionally, the newly founded East Hanover Educational Foundation promises to assist in obtaining technology related resources. Unfortunately, this cannot be relied upon in that we cannot expect to budget a specific amount that we will be granted. As noted earlier, our district does not qualify for many technology grants.

Three-Year Technology Plan Anticipated Funding Table (2010-2013)		
Resource	Item	10-11 Planned Expenditure
Internet	Internet Access/filtering via Cablevision	\$10,000
Online text and subscriptions	Online text	\$500
	Brain POP and United Streaming	\$2700
	Tech Assessment	\$2000
Consultants	As needed	\$60000
Licensing Fees	SII	\$4000
	Iron Port Spam Filter	\$3700
	Antivirus Software	\$6000
	Library System	\$4000
	Maintenance Requests	\$1000
Security	Instant Alert System	\$4000
Supplies	Toner and Computer Lab Supplies	\$8000
	Bulbs	\$2000
Printers	Replacement laser printers	\$1500
Computers	Smith and Middle	\$37,500
	Netbooks/Notebook	
	Smith and Central Desktops	\$24,000
	Upgrade memory	\$5,000
Miscellaneous	Wiring and Hardware	\$2000
Morris county ETIC		\$1900
Telephone Services		\$30,000

Funding Plan Sample Table (2011-2013)

Three-Year Technology Plan Projected Funding Table (2011-20013)		
Resource	Item	11-13 Planned Expenditure
Internet	Internet Access/filtering via Cablevision	\$32,000
Online text and subscriptions	Online text Brain POP and United Streaming	\$1200 \$4000
Consultants	Tech Support	\$120,000
Licensing Fees	SII IT Tracking Iron Port Spam Filter Antivirus Software	\$8000 \$4000 \$8000 \$14000
Security	Instant Alert System	\$8000
Supplies	Toner and Computer Lab Supplies Bulbs	\$14000 \$5000
Printers	Replacements as needed	\$2000
Computers	Replace Obsolete Computers approximately 50 over two years	\$35,000
Smart Classroom Set Up	Smart Boards (8/building / year) Laptop (/building / year)	\$80,000 \$2700
Software	Microsoft Office 2007 Windows 7	\$20,000
Miscellaneous	Wiring and Hardware	\$5000
Network Needs	New Mail Server Fiber backbones and upgrade	\$14,000 \$8,000
Morris county ETIC Dues		\$4000
Telephone Services		\$115,000

VII. Professional Development

Persons Responsible for Coordinating Professional Development Activities

Lawrence Mendelowitz	Director of Curriculum and Instruction
Stacie Costello	Director of Technology

The professional development activities that are currently planned for the 2010-2011 school year for teachers, administrators and school library media personnel are listed in the table below.

Teachers have access to technology via at least one multimedia computer in the teacher's classroom. Additionally, teachers are able to teach lessons in the computer labs when classes are not in session. All staff are able to utilize laptop carts throughout the school day in Central and Middle School. Special education teachers have the use of a laptop and projector. In all three schools there is wireless access.

Our Local Professional Development Committee is charged with the task of determining the needs and direction for professional development in the district. Based on information obtained through an annual needs assessment and with the input of the Director of Curriculum and Instruction, decisions are made about what professional development will be offered for the year. Some portion of all professional development opportunities is devoted to technology. Currently, our district is a member of the Morris County Educational Technology Training Center (ETTC) through which staff can enroll in free classes on any number of technology topics. Staff development days have been delegated during which some aspect of technology is usually an agenda item.

Upon request, assistance with specific topics is available from the Director of Technology, Media Specialist Technology teachers and media savvy peers. Access to workshops, conferences and other workshop opportunities from sources such as BER, Rutgers, and NJECC among others is provided as available and fiscally practical.

For the 2010-2013 school years there will be many opportunities for scheduling training sessions for administrators, media specialists and staff. Assistive technology training is conducted on an as needed basis, as identified students require the use of assistive technological applications and orequipment.

Professional Development VII-C

20010-11 only

Educators' proficiency/ Identified Need	Ongoing, sustained, high-quality professional development planned for 2010-2011	Support
Productivity Tools	Workshops	Will follow up with one-on-one training
Find and use new tools to support research and learning.	Site of the Month	Peer-trainers/Technology Staff
Use technology to meet the needs of diverse learners.	Webinars and Pathfinders	Peer-trainers

Financially, resources will come from the local budget. Other sources to be explored will include grants, donations from The East Hanover Education Foundation, PTA donations, community industry and businesses. Staff meetings, grade level meetings and professional days will be allotted to the topic of technology. Finally, workshops, both in and out of district as well as one-on-one peer training and Professional Learning Communities on specific technological skills will continue to be made available for all educational community members.

VIII. Technology Evaluation Plan

The Technology Committee headed by the Director of Technology will oversee the ongoing monitoring of this Technology Plan. The Committee will meet at least once a year to assess progress on the objectives detailed in this plan. The Committee shall consider the extent to which goals, objectives, activities, resources, and services are effective in integrating technology into curricula and instruction.

The following performance-based objectives will be used to further evaluate implementation of the goals and objectives of this plan:

1. *Integrating Technology:* By June 2013, each academic classroom will be considered a SMART classroom and will be equipped with a SMART Board, wireless laptop, and a wireless laptop cart for each grade level.
2. *Enabling students to meet challenging state and academic standards:* By June 2012 the district will implement a 4th and 8th grade Technology Assessment tool in order to meet the NJCCCS Technology Standards.
3. *Developing life long learning skills:* By June 2011, all students will have access to school provided email accounts and online document storage.

This plan will be annually reviewed and revised as required by state regulations.

Appendix A

District Technology Inventory

See original

Appendix B

District Acceptable Use Policies

See original

Appendix C

District Technology Proficiency Survey

See original

Appendix D
Student Survey