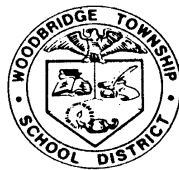


WOODBRIIDGE TOWNSHIP SCHOOL DISTRICT



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Joseph Masperi, *Webpage, Technology & Video Production Coordinator*

Patricia Stock, *District Computer Liaison*

Walter Ziolkowski, *Systems Administrator, Woodbridge Township Municipal Government*

Community Partner

Ray Zirpolo

Other

Adrian Allotey, *Parent*

Brian Geoffroy, *WTEA President*

Elaine Murray, *Parent, Business Education Teacher*

II. EXECUTIVE SUMMARY

The Woodbridge Township School District Technology Plan is designed to address the global citizenry of our community. The District's technology plan is a continuum for technology literacy for students, staff and the community. Our charge is to ensure that technology is infused into the curriculum so that all students have exposure to technological resources. Technology has impacted our lives immensely and has weaved its way through everyday classroom activities. As students have technology at their fingertips, it is imperative that educators incorporate technology into their classrooms. Technology excites students and enhances lessons and it is easily accessible to students and teachers in Woodbridge Township School District.

In order for our schools to fully foster the physical and intellectual growth of all students, it is essential that the schools and their educators actively participate in this Technology Information Age. Successful participation in this changing world requires the use of high levels of information and technology literacy as traditional methods of education no longer encompass all aspects of education, nor do they fully prepare graduates for success, inside and outside of the workplace. The integration of technology into the curriculum enhances not only the classroom environment but also the students' willingness to be fully engaged, to participate and to observe. It is crucial that we use these electronic technology tools for promoting communication and collaboration among students, teachers and parents throughout the academic school year. The following are examples supporting the implementation of technology within the curriculum according to the New Jersey Core Curriculum Content Standards:

In all content areas, students are able to:

- ▶ Access technology tools.
- ▶ Evaluate and select information sources and digital tools based on appropriateness to specific tasks.
- ▶ Practice safe, legal and responsible use of information technology.
- ▶ Use a variety of technological and informational resources to locate, evaluate and synthesize information, and to create and communicate knowledge.
- ▶ Select and use computer applications effectively and productively.
- ▶ Use digital cameras, video camcorders, MP3 players and scanners.
- ▶ Create and present multimedia presentations in various formats.
- ▶ Record multimedia projects and publish to approved websites.
- ▶ Create and design electronic portfolios.
- ▶ Collaborate with peers and design District, school or class websites.
- ▶ Apply critical-thinking skills.
- ▶ Use digital tools to access, manage, evaluate and synthesize information in order to solve problems individually and collaboratively, and to create and communicate knowledge.

In Science, Technology, Engineering and Mathematics, students are able to:

- ▶ Conduct calculator-based laboratories to gather, analyze and present data.
- ▶ Transfer current knowledge to learning of new technologies.
- ▶ Record, analyze and report data using computer technology.
- ▶ Identify trends and forecast possibilities.
- ▶ Make hypotheses about scientific relationships by using computer software to generate and analyze data.
- ▶ Use calculators from Kindergarten through Grade 12 in problem-solving situations.
- ▶ Transfer current knowledge to learning of new technologies.
- ▶ Solve algebraic problems by working with graphing calculators or computers.
- ▶ Make hypotheses about mathematical relationships by using computer software to generate and analyze data.
- ▶ Use interactive computer software to extend classroom teaching.
- ▶ Interact in national databases to share, analyze and present data with/to other secondary schools.
- ▶ Develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world as they relate to the individual, global society and the environment.

In Language Arts, students are able to:

- ▶ Use electronic-publishing software to write and illustrate original stories and essays.
- ▶ Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- ▶ Contribute to project teams to produce original works.
- ▶ Create and present multimedia presentations using large screen projectors.
- ▶ Record projects for the community access programming television channel.
- ▶ Plan electronic meetings with authors.
- ▶ Use bulletin boards for book reviews, literary characters, poems, figurative language, etc.
- ▶ Publish multimedia projects on District, school or class websites.
- ▶ Use electronic software to construct concept maps.
- ▶ Establish an interactive discussion forum for students and teachers to discuss literature, share writing and take part in joint projects with other District schools.

In the Arts, students are able to:

- ▶ Use synthesizers to create, compose, transpose and play music.
- ▶ Study art history on virtual field trips by accessing thousands of art works stored on electronic media.
- ▶ Create and record original compositions via computer.
- ▶ Create images using computer software.
- ▶ Publish work on District, school or class websites.
- ▶ Use digital cameras to explore photography as an art.

In Social Studies, students are able to:

- ▶ Access local, county, state and national government websites to find the names, pictures and initiatives of local, county, state and nationally elected officials.
- ▶ Access New Jersey, U.S. and world history websites for information and grade appropriate student activities.
- ▶ Visit museum websites, across the nation and globe, to locate artifacts, paintings and sculptures to enrich the study of historic events and cultures.
- ▶ Visit national websites to compare social, economic and political institutions to New Jersey and the United States.
- ▶ Visit a variety of websites to compare and contrast news reports.
- ▶ Develop cultural understanding and global awareness by engaging with learners of other cultures.
- ▶ Identify and define authentic problems and significant questions for investigation.
- ▶ Apply economic concepts as they participate and compete in the “Stock Market Game.”
- ▶ Utilize websites to conduct service-learning projects.
- ▶ Send electronic information postcards to schools around the globe to share and compare lifestyles, history, climate and environments.
- ▶ Utilize primary sources, available on electronic websites, while conducting research.
- ▶ Use global positioning system to collaborate on historical projects.

In World Language, students (including ESL) are able to:

- ▶ Use multimedia to learn about other cultures through virtual tours.
- ▶ Access the daily news and primary source documents in the languages they study.
- ▶ Utilize electronic music and art libraries to study culture.
- ▶ Utilize MP3 players, iPods, video camcorders and other recording devices to increase oral proficiency.
- ▶ Develop cultural understanding from electronic media.
- ▶ Use interactive software and distance-learning technology tools to study languages.
- ▶ Communicate electronically with students around the world.

In Health and Physical Education, students are able to:

- ▶ Conduct research projects based on the students’ natural interest in collegiate sports.
- ▶ Access health information from authentic websites.
- ▶ Learn the rules and strategies of international sports.
- ▶ Access a college and high school athletic matching system.
- ▶ Create a personal fitness plan to include diet and exercise.
- ▶ Record Polar Heart Monitor Data and create graphs.
- ▶ Track fitness development.

In Business/Technology Information Literacy, students are able to:

- ▶ Use digital tools to access, manage, evaluate and synthesize information in order to solve problems, individually and collaboratively and to create and communicate knowledge.
- ▶ Access school files at home via an Internet portal.
- ▶ Interact, collaborate and publish with peers.
- ▶ Exhibit leadership for digital citizenship.
- ▶ Demonstrate skills needed to effectively access and use technology-based materials.
- ▶ Access, evaluate and use technology-based communication and information systems efficiently, accurately, critically and creatively.
- ▶ Access, evaluate and use information on specific topics using both technological and print resources in library media centers in an ethical and socially responsible manner.
- ▶ Earn Microsoft Certified Application Specialist Certification.
- ▶ Earn Certiport Internet Core Computing Certification.

Mission Statement

The Woodbridge Township School District is committed to engaging all members of the community in the process of providing a learning environment that fosters interdependence, embraces change and values diversity. Our mission is to prepare lifelong learners through the infusion of technology in a rich curriculum and prepare them for responsible global citizenry and 21st century skills.

Vision Statement

The Woodbridge Township School District is committed to preparing life-long learners who are able to live and thrive with diversity, rapid change and interdependence.

Technology Vision Statement

It is the vision of the Woodbridge Township School District that all students use technology to enhance their educational experience. The District believes that the mastery of 21st century skills will be pivotal in improving student learning and generating data that can be used to continually improve our education system. Through engagement in collaborative learning and meeting the New Jersey Core Curriculum Content Standards, we believe that our students will become productive members of society.

The Woodbridge Township School District's vision is to provide for our students information and data from all over the world through the infusion of cutting edge technology and the use of distance learning in our curriculum.

III. TECHNOLOGY OVERVIEW

A. *Technology*

1. Provide an inventory of current technology networking and telecommunications equipment.

WOODBRIDGE TOWNSHIP SCHOOL DISTRICT TECHNOLOGY NETWORKING AND TELECOMMUNICATIONS EQUIPMENT INVENTORY 2010							
Hardware							
Levels	Servers	Computers	Routers	Switches	Wireless APs	Projectors	Network Printers
Elementary		2173	15	35	271	65	92
Middle		1562	5	26	123	86	48
High	3	1550	3	38	140	88	65
Data Center	28	14	1	2			
Evergreen/ #17 Aftercare		26	1	1	2	1	2
School #2 & 16		56	1	1			8
Board Admin.		116		3	6	5	18
Transportation		11	1	1			3
Totals	31	5508	27	107	542	245	236

2. Describe the technology inventory needed to improve student academic achievement through 2013 including, but not limited to

- *Technology equipment*

The District continues to explore the various options available to infuse technology into the curriculum to enhance the instructional process. Student achievement and the 21st century learners' preparedness for the workforce continue to be the number one priority of the District. Our mission continues to be the delivery of voice data and video to all 28 school buildings to share curricular offerings, ongoing projects and programs and professional development opportunities. The expansion of this network is to improve the scope, quality, richness and the diversity of our District's curricula, and contribute to the enhancement of a positive learning environment within our schools. The school District has the support of the Board of Education Standing Committee Members, which includes a Technology Committee. The Board of Education Technology Committee members meet regularly with the Central Administration Team to review the progress of the technology program.

- *Networking capacity*

The program offers the following:

- Verizon Ethernet Services deliver access to all school District buildings and to our shared municipal network data operation center. Designed to scale with our school District growth and evolving bandwidth requirements, the Ethernet Virtual Private Lines carry data, Internet and network-based applications at ranges from 10, 20 and 100 Mbps (a.k.a. "gigabit Ethernet"). This includes:
 - 10 Mbps – Elementary Schools
 - 20 Mbps – Middle Schools
 - 100 Mbps – High Schools
- Eligibility for federal Universal Service Fund subsidies for telecommunications and Internet reimbursements in addition to the special Verizon Business pricing.
- The high-speed network upgrade now enables us to further infuse current information technologies into our learning environments. This includes Internet, Intranet, shared files, shared databases, Email, web hosting, web-based and specialized applications shared throughout the District. The upgraded network capacity allows for faster speed, backups, troubleshooting and monitoring of our network of 5,500 users. It has improved the education process for our students, teachers, staff and parents.

- *Software used for curricular support and filtering*

<i>Curricular Support Software</i>		
Microsoft Word	Vision, SurfLock, Pointer	EBoards
Microsoft Excel	Geometer's Sketchpad	SIRS/Researcher
Microsoft PowerPoint	Internet Explorer	Mandarin
Microsoft Publisher	Kidspiration	Holt-World Geography
Macromedia Dreamweaver	Bernie Typing	Grolier/Deluxe
Macromedia Fireworks	Websense Filtering	Opposing Viewpoints
Macromedia Flash	Study Island	Kid InfoBits
Adobe Photoshop	Ven Conmigo	Mimio Studio
MicroType Multimedia	Allez Viens	Calculus In Motion
Easiteach Studio	ALEKS	Turningpoint Technologies
Custom Guide	Biology.com	VHD Online Help Desk
College Board SAT Prep LA	Kurzweil	Lotus Notes Email
GameShow Prep	Jostens Yearbook	iNotes Email
QuickBooks Pro	Connected Math	Genesis SIS
Webster - Polyvision	Contour/Tracker	Learnia
Virtual BioLab	Edulog	College Board SAT Prep Math
Skills Assessment Manager for Computer Literacy	Gale Student Resource Center-College Edition	Microsoft Certified Application Specialist
Skills Assessment Manager for Microsoft Office	Technology Challenge (LearnDoEarn.com)	Gale Student Resource Center-Junior Edition
Internet and Computer Core Certifications (IC3)	EBCOhost	

- *Technology maintenance policy and plans*

The District's Tech Team maintains a current technology equipment inventory and maintenance agreement contracts. The technology budget consists of line-item accounts to maintain and support Internet Access, SIS/budget programs, special education IEP tracking system, transportation routing software, specialized software, Library Automation system, subscription databases for administration and classroom use, telecommunications, network maintenance, supplies and repairs. The responsibility of our inter-local shared service partners consists of network systems administration, database administration, web-server administration (Email, Internet, Intranet, and filtering) and project management. During 2010 - 2013, the District will refresh and increase wireless capabilities to all 28 locations. Due to growth of technology in each of the schools, the network infrastructure bandwidth was and will continue to be

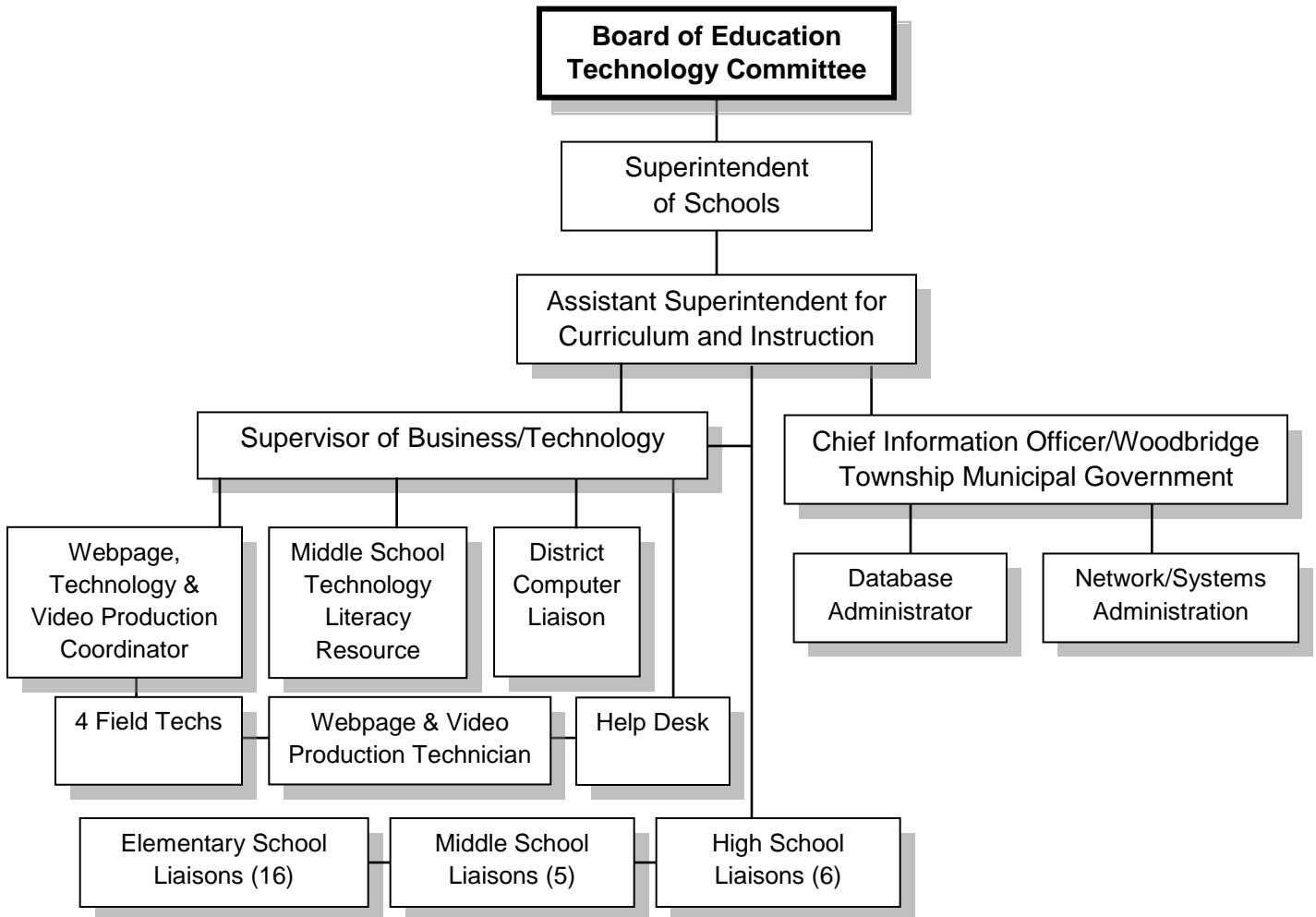
increased where needed. A yearly technology budget provides the funds for parts, repairs, equipment upgrades, software licenses, etc.

- *Telecommunications services*

The following telecommunications services incorporated in this Technology Plan link between the E-rate services requested. Our Form 470 reflects these services:

- 5 Verizon Centrex main lines
- 800 POTS (Plain Old Telephone Service) lines
- 70 cellular phones
- 1.5 million minutes per year in long distance
- 60 Verizon voice mailboxes
- 24 EVPL - Ethernet lines – Wide Area Network connectivity
- 60 mbps port – 1 gig access – Internet Dedicated Ethernet
- Dark private (100 mbps) fiber between the network operation center, school administration building and one elementary school with a savings of over \$15,000 a year.

- *Technical support*



- *Facilities infrastructure*

The facilities infrastructure includes:

- All 28 buildings contain a dedicated network room that houses a network cabinet containing: power protection (UPS), rack servers and network communication equipment.
 - All hardwiring and wireless data connectivity comes back to this main location for network access. Voice over Internet Protocol is the next progression in our infrastructure growth.
 - All areas are air-conditioned and securely located in administrative areas.
 - Cisco routers are located at all 28 locations. These routers forward data to our main shared network operation center at our municipal complex. Network equipment includes:
 - 28 Cisco routers
 - 112 Cisco layer 2 & 3 switches. Ethernet-based switches that provide basic connectivity for network access and backbone applications.
 - 478 Cisco wireless access points
 - 20 main servers; storage area network; centralized backups.
 - Switches in: high schools-22; middle schools-19; elementary schools-39.
 - 16 elementary schools – the majority of the elementary schools are running at less than 5% of the total bandwidth available (10 mb).
 - 5 middle schools – are running less than 10% of the total bandwidth available (20 mb).
 - 3 high schools – are running less than 20% of the total bandwidth available (100 mb).
 - Deployment of multiple access points to maximize Internet for delivery of instruction and assessment in all school buildings.
- *Other services*

Woodbridge Township School District provides several online services to support curricula in an era of standards-based assessment. These tools are used as a component of instruction to enhance curricula and eliminate the confinement of the classroom learning with multimedia resources. These online services include:

- Biology.com
- Certiport Test Center (MCAS/IC3)
- College Board SAT Prep for Math and Language Arts
- EasyTech (learning.com)

- EBoards
- LearnDoEarn.com (Technology Challenge)
- Learnia
- Media Center Online Database Subscriptions
- SIRS Mandarin Library Automation System
- Skills Assessment Manager
- Study Island
- Technology Challenge
- Video on Demand for curriculum delivery and professional development

3. *Describe how the District integrates assistive technology devices into the network to accommodate student needs.*

Woodbridge Township School District ensures equitable access to appropriate digital tools and assistive technology to meet the needs of all learners. The District's ARRA funds were used to purchase assistive technology tools as well as provide continuous professional development for special education teachers at every grade level. In addition to hardware, funds were used to purchase assistive technology software licenses for students to meet with success on State assessments. Devices used by students and staff include mobile laptops/netbooks, IntelliKeys touch screens, DynaVox Minimo-augmentative communication devices, AlphaSmart keyboards, reading pens, word makers, Leap Frog, FM systems, Touch Math, books on tape, Read Aloud/Write Aloud software, computers, interactive pads, interactive whiteboards, AVROvers, special screens, Braille machines, SMART tables, Kurzweil and ALEKS software. These necessary tools are used to enhance classroom instruction.

4. *How teachers and library media personnel have access to educational technology in their instructional areas (such as using desktops, mobile laptop and wireless units, PDAs).*

Since every building in the entire District is networked, all staff members have the ability to access the Internet from any location within the School District. Staff also has the ability to retrieve documents and files from our Intranet from any place within the School District. Through a District online portal, the latest feature is for teachers to have the ability to access their network files from any computer with Internet access. The District has also purchased web-based software for staff and students for ease and accessibility.

5. *How administrators have access to technology in their workplace (such as using desktops, mobile laptop and wireless units, PDAs).*

Every administrative office has wireless Internet access. Administrators have the ability to access their network files through a District online portal anywhere they have Internet access.

6. *Describe how the District's website is accessible to all stakeholders (for example using Federal Accessibility Standards)*

The Woodbridge Township School District has maintained a website that is compliant with Section 504 of the Federal Rehabilitation Act, ensuring that information technology is accessible to people with disabilities. The school web page is primarily text based, and provides text equivalents for non-text elements (graphics) that are essential to describing the site and/or its content. This allows users with access to any assistive technologies, such as screen readers to visit the District site. The standards contained under the Children's Internet Protection Act (CIPA), Woodbridge Township School District Acceptable Internet Use Policy #197 and Acceptable Internet Use Regulation #1970, shall be adhered to. We will continue to update our website in compliance with Section 1194.22 of the web-based Internet information and applications – Detail Voluntary Product Accessibility Template.

7. *Describe the plan for replacing obsolete computers/technology and include the criteria for obsolescence.*

By maintaining a technology inventory and based on that inventory, the District plan is to upgrade and/or replace aging computer equipment every five years. After five years of service, desktop computers are considered obsolete. As replacement funding becomes available, the computers are replaced. If, after five years of service, the desktop computer is still functioning and can provide limited service, the computer may be used in a different or lower capacity area. A donation policy accepting equipment that meets strict hardware criteria to support the School District standards for the latest software deployments is also in place. A computer will be considered obsolete when:

- the highest revision of an operating system it can run is no longer supported by the manufacturer or;
- it can no longer run the required applications with reasonable performance or;
- the cost of repairs exceeds one-third of its replacement cost;

Replacement Protocol			
Desktops			
<i>Years 1-3</i>	<i>Years 4-5</i>	<i>Years 6-8</i>	<i>Years 9+</i>
All hardware repaired under factory warranty.	All hardware repaired at District cost.	Only hardware replaced at District cost: Memory Monitor CD/DVD Wireless Card	Recommend discard once non-functional.
Laptops			
<i>Years 1-3</i>	<i>Years 4-5</i>	<i>Years 6-8</i>	<i>Years 9+</i>
All hardware repaired under factory warranty.	All hardware repaired at District cost.	Only hardware replaced at District cost: Memory (Laptop parts are not in stock, and are purchased as needed)	Recommend discard once non-functional.
Schools are responsible for maintaining the number of instructional computers in their building.			

B. Cyber Safety

1. *List the filtering method(s) used.*

- *Vision Classroom Management Software* enables teachers to manage and control student computer activity from the teacher's computer, supervise student progress, monitor or prevent web browsing, share any computer and remotely control student computers.
- *SurfLock Internet Blocking Software* gives teachers control of Internet access for a single student or the entire class and locks web surfing entirely or allows access to selected sites.
- Websense Enterprise, the world's leading web filtering solution, improves productivity, reduces legal liability, optimizes the use of IT resources, and integrates seamlessly with leading network infrastructure products to offer unequalled flexibility and control.

Some of the categories that are filtered are:

- Adult Material
- Drugs
- Entertainment

- Gambling
- Games
- Illegal or Questionable
- Keyloggers
- Malicious Websites
- Militancy and Extremist
- Phishing and Other Frauds
- Potentially Unwanted Software
- Racism and Hate
- Social Networking *(unless used for instruction purposes upon approval)
- Spyware
- Cyber Bullying

2. *Identify the Acceptable Use Policies (AUP) used for students and staff and include a copy of the AUPs with the submission of this technology plan.*

Policy #197 is the District's Acceptable Internet Use policy. (See Appendix)

3. Describe the District's Internet safety policy that addresses the
 a) technology protection measure that with respect to any of its computers with Internet access protects against access through such computers to visual depictions by adults and minors that are—

(I) obscene; or

(II) child pornography; or for minors only;

(III) harmful to minors; and

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

i-Safe online training is provided to all students in the high and middle school levels and Netsmartz is used for elementary school students. Under the supervision of the classroom teacher, middle and high school students register to become i-SAFE mentors which empower them to become the voice of Internet safety for their peers. Upon completion of this online curriculum, students earn a certificate from the i-Safe organization demonstrating their commitment to online safety. Students present Internet safety guidelines to their peers at class level meetings as well as create public service announcements which are published on SchoolTube. In addition, secondary students visit elementary schools to present online safety

tips. The District website also includes valuable information about online safety. Content includes Internet Safety, Cyber Predators, Cyber Security and becoming an i-Safe mentor. The District is in compliance with NJSC6A: 16-7(A3).

4. Indicate the dates when the school District provided the community with public notice and a hearing to address any proposed Internet safety policy adopted by the school District pursuant to CIPA. *Please note: This is a requirement by e-rate only for those entities that have not already provided such notice and hearing related to an Internet safety policy and technology protection measure.*

CIPA Date: April 29, 2009

C. Needs Assessment

- a. *Evaluate educators' current practices in integrating technology across the curriculum.*

The 2007-2010 Tech Plan was a roadmap to successfully navigating technology infusion in our District. With the local shared services and the federal stimulus funds, the District was able to make great strides in this area. The District was able to fulfill the 2007-2010 Technology Plan which called for wireless connectivity, additional equipment and sustained staff professional development. Through the innovative use of instructional technologies and resources, Woodbridge Township School District has effectively engaged students in 21st century learning. Some of the goals that were achieved are:

1. Connectivity in all District buildings
2. Online curriculum resources
3. Developed a viable plan for upgrading hardware, software and infrastructure
4. Increase in Technology Literacy among staff

- b. *Provide a summary of educators' proficiency in the use of technology within the District.*

Surveys on staff proficiency in the use of technology imply a shift toward more advanced levels of technology awareness and use along a scale modified from the LoTI framework. The survey was created using Survey Monkey and distributed to staff via email. During the same time period, there was increased technology professional development offered to personnel. Our Technology Academy transformed from a summer institute to a Fall, Winter, Spring and Summer institute and expanded its offering to include educational resources in the form of scheduled webinars.

All teachers in our District use the student information system for homeroom attendance, posting interim and report card grades. Secondary teachers also use the student information system for classroom attendance, grade book and storage and retrieval of student information. In an attempt to support the township's "Going Green" initiative, the District has adopted policies to reduce the use of paper as one measure. Many of our schools have chosen to adopt a paperless environment for communication among staff. Therefore, all staff members have reached proficiency in the use of email and basic desktop applications during this period.

**Technology Proficiency Level for
Teachers and Media Center Specialists
2009-2010**

SCHOOL	Beginning	Intermediate	Advanced	Instructor
#1 – Mawbey Street	0%	73%	13%	13%
#4 & 5 – Avenel Street	30%	40%	20%	10%
#9 – Port Reading	0%	42%	42%	17%
#11 – Ross Street	27%	53%	7%	13%
#14 – Ford Avenue	11%	56%	22%	11%
#18 – Indiana Avenue	0%	75%	8%	17%
#19 – Menlo Park Terrace	7%	79%	7%	7%
#20 – Claremont Avenue	11%	58%	21%	11%
#21 – Oak Ridge Heights	15%	62%	23%	0%
#22 – Lynn Crest	6%	63%	13%	19%
#23 – Woodbine Avenue	0%	73%	7%	20%
#24 – Kennedy Park	5%	57%	24%	14%
#25 – Lafayette Estates	18%	59%	6%	18%
#26 – Robert Mascenik	13%	63%	19%	6%
#27 – Pennsylvania Avenue	9%	64%	18%	9%
#28 – Matthew Jago	18%	64%	15%	3%
Avenel Middle School	9%	65%	16%	9%
Colonia Middle School	9%	58%	21%	12%
Fords Middle School	16%	54%	24%	5%
Iselin Middle School	15%	85%	31%	8%
Woodbridge Middle School	15%	45%	30%	9%
Colonia High School	12%	55%	20%	13%
JFK Memorial High School	16%	52%	20%	13%
Woodbridge High School	5%	58%	22%	15%

i. Educators are assured access to technology to facilitate technology integration across the curriculum,

The District provides computer access in classrooms, media centers (wireless and hard-wired), computer labs, mobile computer labs and faculty rooms in schools. Our staff can access their email, Internet, Intranet, shared files, shared databases and specialized databases from any location throughout the District. Additionally, staff can access email and their District drive from any remote location with Internet access and Homenet portal. Many classrooms have been equipped with projectors and all teachers have access to Mimio interactive devices and projectors for classroom use. AV Rovers have also been purchased and placed into every secondary building.

ii. Often students have access to technology to support the use of 21st century skills in their learning environment,

High schools have seven classrooms/labs with a minimum of 20 computers in each setting, a teacher station in each classroom and 5+ laptop carts containing 20 laptops each. Middle schools have one hardwired computer lab/classroom in addition to wireless access and 5+ laptop carts containing 20 laptops each. At the elementary level students have access to several wireless carts.

iii. The needs of educators are evaluated,

The needs of educators are evaluated through surveys, exit evaluations from professional development activities and principal recommendations. Additionally, Secondary and Elementary School Computer Liaisons' meetings are held monthly. This is an opportunity for schools to share any concerns or accomplishments pertaining to technology with the District Supervisor of Technology.

iv. The needs of students are evaluated,

The needs are continuously evaluated through school-developed surveys that address District goals and objectives for educational technology. Student views are also voiced through inclusion on building and District committees such as Superintendent and Career Technical Education committees. Their views are considered a valuable input.

- v. *Past professional development addressed the educators' and students' needs for technology integration,*

Staff Development Activities	
39th Annual Conf. Read/Writing	Microsoft PowerPoint
NJPSA Convention	National Business Education Association Conf.
The Creative Workshop/Math/Technology	NJ Art Convention
17th Annual Literacy for All NE K-6 Lit.	NJ Association of School Librarians
FEA-NJPSA-NJASCD Fall Convention	NJASA Techspo
AP Equity Colloquium	SMART Teaching Across the Curriculum
Clicking With Technology	SMART Board
Computer Training Sessions	Unlock Secrets of Blogs, Wikis & RSS Workshop
Creative Classroom/Integrating Math & Technology	Using Tech. To Engage Students in Discovery
Designing Creative Schedules for High School	Using iPods, Blogs and Pod casts
Differentiated Assessment and Grading	Using Interactive Whiteboards in the Classroom
Differentiating Instruction/Literacy	Student Information System: Genesis
Every Child Learns Differently	Using iPods for Special Needs Students
Intermediate Microsoft PowerPoint	Webinar Training: Technology Challenge
Internet Connections for Connected Math	Game Show Prep Training
Internet Resources to Support Student Testing	Adobe Captivate and Contribute Webinar
Introduction to Adobe Photoshop	Webinar: Tracker Training
Introduction to Microsoft PowerPoint	Using Email: iNotes, Lotus Notes
ISTE NECC	Using Electronic Grading System
NJBTEA Conference	Building Fluency for Grades K-2

- vi. *Past professional development for all administrators was provided to further the effective use of technology in the classroom or library media center,*

Administrators Development Activities	
NJPSA Convention	National Business Education Association Conf.
The Creative Workshop/Math/Technology	NJ Art Convention
Clicking With Technology	NJASA Techspo
Designing Creative Schedules for High School	Unlock Secrets of Blogs, Wikis & RSS Workshop
Differentiated Assessment and Grading	Using Tech. To Engage Students in Discovery
Differentiating Instruction/Literacy	Using iPods, Blogs and Pod casts
Every Child Learns Differently	Using Interactive Whiteboards in the Classroom
Internet Connections for Connected Math	Student Information System: Genesis
Internet Resources to Support Student Testing	Using iPods for Special Needs Students
ISTE NECC	Webinar Training: Technology Challenge
NJBTEA Conference	Gameshow Prep Training
17th Annual Literacy for All NE K-6 Literature	Adobe Captivate and Contribute Webinar
Creative Classroom/Integrating Math & Technology	Webinar: Gameshow Prep Training

- vii. *Ongoing, sustained professional development was provided in 2009-2010 for all educators to further the effective use of technology in the classroom and library media center,*

Sustained professional development was provided for all educators in several formats/venues, such as (included but not limited to):

- Fall, Winter, Spring and Summer Technology Academies
- Archived webinar series
- Training by school computer liaisons
- Attending workshops and conferences
- District In-Service Day for staff
- ETTC workshops
- Workshops offered by local colleges and universities

Other workshops include:

Learnia	Annual National Business Education Association Conference
Annual NJ Art Convention	The Creative Workshop/Math/Technology
Annual NJASA Techspo	Annual Literacy for All NE K-6 Lit.
Annual NJBTEA Conference	Unlock Secrets of Blogs, Wikis & RSS Workshop
Using iPods, Blogs and Podcasts	Using Tech. To Engage Students in Discovery
Differentiating Instruction/Literacy	Differentiated Assessment and Grading
Every Child Learns Differently	Using Interactive Whiteboards in the Classroom
Internet Connections for Connected Math	ISTE NECC
Internet Resources to Support Student Testing	Using iPods for Special Needs Students
Creative Classroom/Integrating Math and Technology	Government Management Information Systems
Designing Creative Schedules for High School	Annual NJPSA Convention
Training Series on the Integration of Assistive Technology into the Educational Process	30 Tips and Strategies to Deal with Defiant Students Behavior
Student Information System: Genesis	Association for Career and Technology Education

- viii. *Ongoing, sustained professional development was provided in 2009-2010 for administrators to further support the effective use of technology in the classroom or library media center,*

Attendance at technology professional development activities at the NJ School Boards Convention, Genesis Workshops, District Technology Academy, NJ Principal and Supervisors Association Convention, National Business Education Association Conference, NJ Association School Administrators' Techspo Conference, Association of Staff Development and Curriculum, National Educational Computing Conference, District created workshops and seminars. Archived webinars included Make the Leader-Shift: Strategies to Develop Transformational Leadership; PLN: Building and Growing your own Professional Learning Networks; What Every Principal Should Know About Special Education; Peer Coaching: Keystone to 21st Century Teaching and Learning; etc.

- ix. *Supports were provided for educators other than professional development,*

The District supports staff initiative to present and share ideas at conferences and professional associations—NJASA Techspo, NJ Business Education Technology Association, Association for Career and Technical Education (ACTE), NJ School Boards Association, National Science Teachers Association, American Association for the Advancement of Science, Monmouth Junior Science Symposium, Character Education Conference, etc. The District also supports the use of blogs for collaboration among educators participating in professional learning communities in their school buildings.

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

Based on staff responses, barriers include limited time for professional development (one day a year allocated by District) and lack of shared planning time.

2. *Based on the answers given above, indicate the needs of the District to improve academic achievement for all students through the integration of technology across all curricular areas.*

The needs are to ensure that our teachers are comfortable with technology and its infusion into the classroom, specifically how and why it is used. By ensuring that teachers are comfortable with and prepared to use technology, the district will be able to create more interactive and engaging classrooms and sustain the interest levels of the 21st century learner.

3. *Prioritize the identified needs*

Based on monthly meetings of different committees, the consensus of identified needs are:

1. Lack of shared planning time for peer collaboration
2. Distance learning opportunities
3. Electronic support for textbooks
4. Document cameras for interactivity
5. Smart phones for administrators for increased communication

IV. THREE-YEAR GOALS AND OBJECTIVES

A. History

Evaluate each goal from the previous plan, in one or two sentences, detailing each goal's success, or reasons for continuation, or issues preventing its success.

Goal 1: The Woodbridge Township School District staff will understand the ethical, cultural and societal issues of information technology to include copyright, trademarks, public/private domain and publishing works on the web. District staff document lessons on ethical, cultural and societal issues as well as classroom discussions about the implications of technology and the Internet in their lesson plans.

Goal 2: The Woodbridge Township School District and the Woodbridge Municipal Government will provide students, teachers and administrators with equal opportunities to use technology resources by making technology accessible in all learning environments including, but not limited to, classrooms, media centers and other educational settings such as public libraries and community centers.

Goal 3: The Woodbridge Township School District and the Woodbridge Municipal Government will continue to maintain and enhance the established technology infrastructure to ensure that the goals of the Technology Plan can be met, so that students can access and use technology information.

Goal 4: The Woodbridge Township School District will continue to offer ongoing technology development and training opportunities for faculty/staff to achieve proficiency and to integrate technological resources into the curriculum.

B. Goals and Objectives for 2010-2013

Modify goals and write new goals to meet the needs identified from the assessments. Goals for 2010-2013 should support District need and align with the state plan.

Goal 1: The Woodbridge Township School District will provide students with equal opportunity to access, evaluate, synthesize, communicate and collaborate on information. A variety of formats will be available, thus ensuring that students will attain the educational technology and information literacy skills necessary to achieve the New Jersey Core Curriculum Content Standards and to succeed in the workplace of the 21st century. This is an ongoing goal due to the size and scope of the District.

Goal 2: The Woodbridge Township School District staff will model the ethical behavior in the use of information technology to include copyright, trademarks, public/private domains and publishing on the web and Internet safety.

Goal 3: The Woodbridge Township School District will continue to offer relevant technology professional development and training opportunities for faculty and staff to develop their competencies as they help increase student proficiencies in the New Jersey Core Curriculum Content Standards and adapt to new-age teaching strategies. Professional development for staff is an ongoing process as new teachers enter the District and new and emerging technologies are in the forefront of the educational process.

Goal 4: The Woodbridge Township School District and the Woodbridge Municipal Government will provide students, teachers and administrators with equal opportunities to use technology resources by making technology accessible in all learning environments, including, but not limited to, classrooms, media centers and other educational settings such as public libraries and community centers.

Goal 5: The Woodbridge Township School District and the Woodbridge Municipal Government will continue to maintain and enhance the coordination of the established technology infrastructure, sharing solutions thereby ensuring that the goals of the technology plan can be met so that students can access and use technology information.

V. THREE-YEAR IMPLEMENTATION AND STRATEGIES TABLES (July 2010 – June 2013)

- Describe the implementation strategies/activities that relate to the goals and objectives. Include in the description the timeline, person responsible and documentation (or evidence) that will prove the activity occurred.

Activity Table

Goal 1: The Woodbridge Township School District will provide students with equal opportunity to access, evaluate, synthesize, communicate and collaborate on information. A variety of formats will be available, thus ensuring that students will attain the educational technology and information literacy skills necessary to achieve the New Jersey Core Curriculum Content Standards and to succeed in the workplace of the 21st century. This is an ongoing goal due to the size and scope of the District.

Objective 1.1: All classrooms and media centers will be better equipped with additional 21st century information technology tools and resources to ensure that all students have greater access to educational technology.

- By 2011, update operating system and software.
- By 2012, refresh second generation desktop computers.

Activity/ Strategy	Timeline	Responsibility	Documentation
1.1.1 Principals plan and budget for technology tools, iPods, DLP projectors, digital cameras, interactive whiteboards, Web 2.0, Flip video cameras.	9/2010-6/2013	Board of Education Central Administration Building Principals	Annual budget
1.1.2 District will work with inter-local partners to introduce and test new software and technologies in a controlled environment, such as video curriculum on demand.	9/2010-6/2013	Board of Education Central Administration Inter-local partners	Results of performance tests

Activity Table

Goal 1: The Woodbridge Township School District will provide students with equal opportunity to access, evaluate, synthesize, communicate and collaborate on information. A variety of formats will be available, thus ensuring that students will attain the educational technology and information literacy skills necessary to achieve the New Jersey Core Curriculum Content Standards and to succeed in the workplace of the 21st century. This is an ongoing goal due to the size and scope of the District.

Objective 1.2: Students will be able to evaluate the validity of websites and later synthesize their findings in their individual work.

Activity/ Strategy	NJ CCCS	Timeline	Responsibility	Documentation
1.2.1 Investigate the methods used to identify the authenticity of websites.	LA 3.1 – 3.5 M 4.5 SC 5.1, 5.2, 5.3 SS 6.1, 6.2, 6.3	9/2010-6/2013	Classroom Teacher Media Specialist	Reflected in student assignments
1.2.2 Select appropriate electronic media for research and evaluate the quality of the information.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Classroom Teacher Media Specialist	Reflected in student assignments
1.2.3 Develop strategies and skills for information-gathering and problem-solving, using appropriate tools and techniques.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Classroom Teacher Media Specialist	Reflected in student assignments

Activity Table

Goal 1: The Woodbridge Township School District will provide students with equal opportunity to access, evaluate, synthesize, communicate and collaborate on information. A variety of formats will be available, thus ensuring that students will attain the educational technology and information literacy skills necessary to achieve the New Jersey Core Curriculum Content Standards and to succeed in the workplace of the 21st century. This is an ongoing goal due to the size and scope of the District.

Objective 1.3: To meet the NJ Technology Assessment Standard and NCLB requirements, students in Grade 4 will create a technology portfolio.

- By 2011, students will have a proficiency level of 85%.
- By 2012, students will have a proficiency level of 90%.
- By 2013, students will have a proficiency level of 95%.

Activity/ Strategy	Timeline	Responsibility	Documentation
1.3.1 Using open source word processing software students will create documents in an acceptable format.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons	Student Portfolios
1.3.2 Using open source spreadsheet software students will create documents in an acceptable format.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons	Student Portfolios
1.3.3 Using open source presentation software students will create presentations in an acceptable format.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons	Student Portfolios

Objective 1.4: To meet the NJ Technology Assessment Standard and NCLB requirements, students in Grade 8 will participate in a technology literacy exam, and create a technology portfolio beginning May 2011.

- By 2011, students will have a proficiency level of 90%.
- By 2012, students will have a proficiency level of 95%.
- By 2013, students will have a proficiency level of 98%.

Activity/ Strategy	Timeline	Responsibility	Documentation
1.4.1 Use EasyTech web-based tutorial software by learning.com and Simple Assessment.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons Middle School Technology Support teacher	Generate a report by individual schools reflecting teacher participation.
1.4.2 Teachers will use EasyTech and Custom Guide teacher resource module to assist them as they prepare students for technology literacy exam.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons Middle School Technology Support teacher	Generate a report by individual schools reflecting teacher participation.
1.4.3 Use a software specific rubrics (EasyTech and Custom Guide) as a guide to seamlessly integrate technology into the core curriculum for critical subject area mastery: <ul style="list-style-type: none"> • Math • Science • Language Arts • Social Studies 	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons Middle School Technology Support teacher	Generate a report by individual schools reflecting teacher participation Classroom observation by educational leaders
1.4.4 Using open source software students will create word processing documents, spreadsheets and presentations in an acceptable format.	9/2010-6/2013	Classroom teachers Media specialists School computer liaisons Middle School Technology Support teacher	Student Portfolios

Activity Table

Goal 2: The Woodbridge Township School District staff will model ethical behavior in the use of information technology to include copyright, trademarks, public/private domains and publishing on the web and Internet safety.

Objective 2.1: Students will design and create projects that will help them gain a greater understanding of the ever-changing technological issues prevalent within the present culture and society.

Activity/Strategy	NJ CCCS	Timeline	Responsibility	Documentation
2.1.1 Conduct i-Safe/NetSmartz mentoring training.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Media Specialist Classroom Teacher	Certification from i-Safe Organization Student modeling Lesson plans Website
2.1.2 Continue to provide relevant and critical information on the website.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Media Specialist Classroom Teacher	Viewing of website Email notification
2.1.3 Recognize technological change and continuity within student lives and the lives of family members.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Media Specialist Classroom Teacher	Research Project/ Presentation
2.1.4 Assist in maintenance of the official school website.	LA 3.1 – 3.5 M 4.5 SC 5.1 SS 6.1, 6.2, 6.3	9/2010-6/2013	Media Specialist Classroom Teacher	Student Portfolio

Activity Table

Goal 3: The Woodbridge Township School District will continue to offer relevant technology professional development and training opportunities for faculty and staff to develop their competencies and new-age teaching strategies, thereby increasing student proficiencies in the New Jersey Core Curriculum Content Standards. Professional development for staff is an ongoing process as new teachers enter the District and new and emerging technologies move to the forefront of the educational process.

Timeline: 2010-2013

Objective 3.1: By 2013 all schools will increase the number of access points within their buildings.

- *Increase number of computers with Internet access in all media centers*
- *Increase number of classrooms with computers*
- *Increase number of mobile labs*

Activity/Strategy	Timeline	Responsibility	Documentation
3.1.1 Update and increase the number of computers with Internet access in all media centers.	9/2010-6/2013	Building Principals Board of Education Inter-local partners Tech Team	NJ Technology Survey
3.1.2 Increase technological resources within the media centers such as wireless, interactive whiteboards, DLP projectors, etc.	9/2010-6/2013	Building Principals Board of Education Inter-local partners Tech Team Media Specialists	NJ Technology Survey
3.1.3 Develop strategies for increasing the number of classrooms with technological resources such as computers, interactive whiteboards, DLP projectors, etc.	9/2010-6/2013	Building Principals Board of Education Tech Team	NJ Technology Survey
3.1.4 Develop strategies for increasing the number of classrooms and media centers with Internet access.	9/2010-6/2013	Building principal Board of Education Tech Team	NJ Technology Survey
3.1.5 Develop strategies for increasing the number of mobile labs and access points in all schools.	9/2010 – 6/2013	Building principal Board of Education Inter-local partners Tech Team	Report recommendations

Activity Table

Goal 3: The Woodbridge Township School District will continue to offer relevant technology professional development and training opportunities for faculty and staff to develop their competencies and new-age teaching strategies, thereby increasing student proficiencies in the New Jersey Core Curriculum Content Standards. Professional development for staff is an ongoing process as new teachers enter the District and new and emerging technologies move to the forefront of the educational process.

Objective 3.3: By 2013, all staff will have increased their skill proficiency and integrated technology resources, not limited to computers and Internet access.

- *Digital cameras*
- *Distance learning materials*
- *DLP projectors*
- *Flip video cameras*
- *Interactive pads*
- *Interactive whiteboards*
- *iPods*
- *Student response systems*
- *Tablets*
- *Video on Demand instructional materials*

Activity/Strategy	Timeline	Responsibility	Documentation
3.3.1 Develop strategies for increasing the number of classrooms with technological resources such as interactive whiteboards, DLP projectors, iPods, tablets, interactive pads and student response systems.	9/2010-6/2013	Building principal Board of Education Tech Team	NJ Technology Survey
3.3.2 Create an image for a tablet personal computer and pilot its use at a middle school.	9/2010 – 6/2013	Building principal Board of Education Inter-local partners Tech Team	Report recommendations

Objective 3.4: By 2011, complete providing technology resources such as Internet access and a computer in all teacher planning areas.

- *District will include a computer and printer for teacher planning purposes.*
- *Teachers will have access to District online resources.*

Activity Table

Goal 4: The Woodbridge Township School District and the Woodbridge Municipal Government will provide students, teachers and administrators with equal opportunities to use technology resources by making technology accessible in all learning environments, including, but not limited to, classrooms, media centers and other educational settings such as public libraries and community centers.

Objective 4.1: The District will strive to increase new-age technologies in the classrooms.

- *Utilizing capital supply funding to refresh and increase classroom technology including laptops, wireless carts, peripherals and software.*
- *Utilizing school supply budgets to refresh and increase classroom technology including laptops, wireless carts, peripherals and software.*

Activity/Strategy	Timeline	Responsibility	Documentation
4.1.1 Deployment of terminal services to various schools for faster speeds with web-based systems.	9/2010 - 6/2013	Board of Education Inter-local partners	Reduction in the percentage of "down time" and help desk requests.
4.1.2 Building principal budgets will include line item for technology resources.	9/2010-6/2013	Building Principal	Increase in available technological resources.
4.1.3 Refresh wireless access points within all school buildings.	9/2010 – 6/2013	Board of Education Building Principal Tech Team	Ability to use wireless technology throughout the buildings.
4.1.4 Increase number of new-age technology in each building such as DLP projectors, interactive pads, etc.	9/2010 – 6/2013	Board of Education Building Principal Tech Team	Increased inventory of new-age technology.
4.1.5 Research the possibility of adopting Cloud Computing.	9/2010-6/2013	Board of Education Tech team Inter-local partners	Meeting agenda.
4.1.6 Design and create parameters for student use of District network, Web 2.0 tools and new age technologies.	9/2010-6/2013	Board of Education Tech team Inter-local programs	Implementation of parameters for student use.
4.1.7 Research possibility of providing students with a learning management that will provide students with logons, email access for school use only and a digital drop box.	9/2010-6/2013	Board of Education Building principal Tech team Inter-local programs	Student use of learning management system utilizing logins and/or email Meeting agenda.

Activity Table

Goal 4: The Woodbridge Township School District and the Woodbridge Municipal Government will provide students, teachers and administrators with equal opportunities to use technology resources by making technology accessible in all learning environments, including, but not limited to, classrooms, media centers and other educational settings such as public libraries and community centers.

Objective 4.2: The District will work to ensure that students and teachers in non Title 1 schools will have equal access to educational technology as those students and teachers in Title 1 schools.

- *Refreshment of all wireless infrastructures in all Title 1 schools with the latest networking technologies. Utilizing capital supply funding to refresh and increase classroom technology including laptops, wireless carts and peripherals, including access points.*
- *Refreshment and additions of wireless laptops and carts in all Title 1 schools.*

Activity/Strategy	Timeline	Responsibility	Documentation
4.2.1 Upgrade and maintain wireless infrastructure in all Title 1 schools with the latest networking technologies.	9/2010 - 6/2013	Board of Education Inter-local partners Building Principals	Annual NJ Technology Survey
4.2.2 Develop strategies and a timeline for the refreshment and/or increase in technology resources.	9/2010- 6/2013	Board of Education Building Principals	Increase in laptops, peripherals, interactive whiteboards, iPods, etc.

Activity Table

Goal 4: The Woodbridge Township School District and the Woodbridge Municipal Government will provide students, teachers and administrators with equal opportunities to use technology resources by making technology accessible in all learning environments, including but not limited to, classrooms, media centers and other educational settings such as public libraries and community centers.

Objective 4.3: The District will continue to support the partnership with the municipal government as a leader in shared technology services. This partnership will enhance consolidation of servers, deployment of new network security measures, wireless school monitoring, security monitoring (24/7); training facilities and shared personnel.

- *Continue with shared services in technology “21st Century Technology / Tech 2000” now in its 12th year.*
- *Continue with shared services with the local municipal and educational television station with updated programming and bulletin board information for the community.*
- *Continue deployment of Voice over Internet Protocol (VoIP) in a shared environment for students and parents to obtain information via District information hotlines.*
- *Expand provisions for students and staff to have remote access to electronic subscription databases and special web-based programs (i.e. Study Island, Learnia, Simple Assessment, Skills Assessment Manager, etc.)*
- *Update access points at three high schools and five middle schools that are equipped with wireless capabilities.*
- *Update the new transportation routing system with web-based capabilities to coordinate routes of students transported in and out of District.*

By the end of 2013:

- *Digital Video Comprehensive security and surveillance will be explored for faculty, staff and student safety.*
- *Continue to maintain the core database systems such as the Genesis Student Information System and Edulog.*
- *Woodbridge Township School District personnel and our inter-local partners will have continued exploration of grant opportunities to augment the growth of our technology initiatives.*

- Refreshment of all 3 high schools, 5 middle schools and 16 elementary school wireless infrastructure and continue to maintain infrastructure with the latest network routers and switches.
- Explore a fiber infrastructure to support distance learning and VoIP.

Activity/Strategy	Timeline	Responsibility	Documentation
4.3.1 Outside monitoring of our network 24/7 - 365 days a year to insure any security concerns internal or external.	9/2010-6/2013	Inter-local partners	Security Audit Report
4.3.2 Refreshment of older network switches for faster access.	9/2010-6/2013	Board of Education Inter-local partners Tech team	Increased speed
4.3.3 Technology security audits every two years for a healthy network.	9/2010-6/2013	Inter-local partners Tech team	Security Audit Report

Activity Table

Goal 5: The Woodbridge Township School District and the Woodbridge Municipal Government will continue to maintain and enhance the coordination of the established technology infrastructure, sharing solutions thereby ensuring that the goals of the technology plan can be met so that students can access and use technology information.

Objective 5.1: The District will provide professional development activities to broaden educators' understanding and knowledge of information technology.

- ETTC vouchers
- District Technology Academies
- In-house specialized training
- Archived webinars
- Information literacy workshops
- Access to video on demand

Activity/Strategy	Timeline	Responsibility	Documentation
5.1.1 Continue to purchase annual vouchers from local ETTC, colleges and universities.	9/2010-6/2013	Assistant Superintendent for Curriculum and Instruction	Teacher registrations
5.1.2 Continue District technology academies.	9/2010-6/2013	Assistant Superintendent for Curriculum and Instruction Business/Technology Supervisor Middle School Technology Literacy Resource Teacher	Staff registrations Professional Development Hours
5.1.3 Conduct specialized training via network through webinars.	9/2010-6/2013	District Computer Liaison	Sign-in documentation Classroom demonstration

Activity Table

Goal 5: The Woodbridge Township School District and the Woodbridge Municipal Government will continue to maintain and enhance the coordination of the established technology infrastructure, sharing solutions and thereby ensuring that the goals of the technology plan can be met so that students can access and use technology information.

Objective 5.2: Web-based technological resources will be provided to all staff members to aide them in developing their proficiency with technology integration in the classroom, such as:

- District teacher resource website
- LearnDoEarn.com
- Middle School Technology Literacy Resource Teacher
- Publishers’ technology materials for textbooks
- School computer liaisons
- Variety of web-based software such as Simple Assessment, Study Island and Learnia
- Video on demand for curriculum delivery

Activity/Strategy	Timeline	Responsibility	Documentation
5.2.1 Conduct specialized training (meeting Grade 8 tech literacy) with middle school computer liaisons to have them turnkey this training within their respective buildings.	9/2010-6/2013	Business/Technology Supervisor Middle School Technology Literacy Resource Teacher	Sign-in documentation
5.1.2 Conduct specialized technology training for school computer liaisons and teachers for the integration of technology into their lessons.	9/2010-6/2013	Business/Technology Supervisor Middle School Technology Literacy Resource Teacher	Sign-in documentation
5.1.3 Provide training incentives where teachers are given professional development hours for completing web-based activities that demonstrate how to integrate technology into their respective areas.	9/2010 – 6/2013	Supervisor of Business /Technology School Computer Liaisons	Software reporting feature

B. Develop strategies to ensure that the technology plan addresses the use of technology, including assistive technology, to support the 21st century learning communities.

- Professional development workshops
- Community-based partnerships with advocacy groups supporting the Individuals with Disabilities Education Improvement Act (IDEIA)
- In-class support where required
- Purchase and implement assistive technology software
- Focus on purchasing web-based instructional software
- Training on the use of assistive technologies

C. Provide details of the process for meeting the NCLB requirement that all students be technologically literate by the end of grade eight.

The District Middle School Technology Resource Teacher assists classroom teachers in the integration of technology into their lessons and the creating of portfolios. In meeting the Grade 8 technology literacy requirement and increasing technology skill proficiency of teachers, the District continues to use Learning.com.

D. Identify specific telecommunications and information technologies and any other specific resources that are useful to reach the stated goal.

- Upgrades of all firmware on all network equipment.
- Deploying the latest wireless security management tools and incorporation of a wireless security policy.
- Refreshment of wireless access points with the latest equipment for speed, security and obsolescence.
- Server refreshment upgrades after four years.
Maintaining all the latest firmware upgrades, software patches on operating systems and applications software.
Technology Security audits every two years for a healthy network.
Telecommunications audits every two years to maximize data, voice and video costs and new offerings.
- Voice over Internet deployment trials over our newly installed fiber optic network from our Municipal Government Network Operation Center and our Board of Education Administration Building pilot.
- Future fiber deployments for unlimited bandwidth for voice, data and video on demand and eliminating costly Verizon connections (similar to fiber optic project above).
- Secure Shared Services Grants similar to fiber optic network plan from Woodbridge Township Municipal Building to Board Administration Building.
- Upgrade of network switches dedicated for backups removing it from the network for faster desktop/laptop speeds in the schools and administration areas.

VI. FUNDING PLAN (July 2010 – June 2011)

- A. Provide the anticipated costs for 2010-2011 and then indicate the projected funding for 2012-2013 of the technologies to be acquired. Include expenses such as hardware/software, digital curricula including [NIMAS](#) compliance, upgrades and other services including print media that will be needed to achieve the goals of this plan. Also incorporate specific provisions for interoperability among components of such technologies to successfully achieve the goals of this plan.
- B. Indicate the federal, state, local and other sources of funds used to help ensure that students have access to technology and ensure that educators are prepared to integrate technology effectively into curricula and instruction.

FUNDING FOR 2010-2011 TECHNOLOGY PLAN					
	Federal Funding	State Funding	Local Funding	In-Kind Inter-Local Funding	MISC / Donations Funding
Internet Access Fees			\$90,000.00		
Shared Services			\$110,000.00	\$160,000.00	
SIS System			\$30,000.00		
Budget System			\$108,836.00		
Transportation Routing			\$8,000.00		
Network Maintenance			\$135,000.00		
Repair Services			\$15,000.00		
Software Licenses			\$250,000.00		
Subscription Licenses			\$65,535.00		
Special Ed. Licenses			\$10,000.00		
Computer Supplies			\$62,625.00		
Hardware Purchases			\$189,233.00		
Training			\$15,000.00		
Online text/courses			\$6,732.00		
NCLB					
TITLE IID	\$12,000.00				
TITLE IIA	\$250,000.00				
Perkins Grant	\$89,000.00				
ARRA/IDEA	\$400,000.00				
Telecommunications			\$750,000.00		
School Purchased					
Hardware			\$62,000.00		
Software			\$65,000.00		\$25,000.00
Special Ed Software			\$25,000.00		
GRAND TOTALS	\$751,000.00	\$0.00	\$1,997,961.00	\$160,000.00	\$25,000.00

FUNDING FOR 2012-2013 TECHNOLOGY PLAN

	Federal Funding	State Funding	Local Funding	In-Kind Inter-Local Funding	MISC / Donations Funding
Internet Access Fees			\$180,000.00		
Shared Services			\$220,000.00	\$320,000.00	
SIS System			\$60,000.00		
Budget System			\$217,632.00		
Transportation Routing			\$16,000.00		
Network Maintenance			\$270,000.00		
Repair Services			\$30,000.00		
Software Licenses			\$500,000.00		
Subscription Licenses			\$131,070.00		
Special Ed. Licenses			\$20,000.00		
Computer Supplies			\$125,250.00		
Hardware Purchases			\$300,000.00		
Training			\$30,000.00		
Online text/courses			\$13,464.00		
NCLB					
TITLE IID	\$12,000.00				
TITLE IIA	\$250,000.00				
Perkins Grant	\$89,000.00				
ARRA/IDEA	\$400,000.00				
Telecommunications			\$1,600,000.00		
School Purchased					
Hardware			\$124,000.00		
Software			\$130,000.00		\$25,000.00
Special Ed Software			\$50,000.00		
GRAND TOTALS	\$751,000.00	\$0.00	\$4,017,416.00	\$320,000.00	\$25,000.00

- c. Attach a copy of the board approval for this technology plan. Be sure it includes the budget for the first year of this plan.

Board Approval –Technology Plan - April 29, 2010;

Technology

April 29, 2010

The Technology Committee, on the recommendation of the Superintendent of Schools and the Assistant Superintendent for Curriculum and Instruction presented the following:

- 1. That the Board of Education approve the submission of the Woodbridge Township School District Technology Plan 2010 – 2013 to the Middlesex County Superintendent of Schools.


Mr. Miloscia moved for the adoption of the Technology recommendation, seconded by Ms. Acquisto. During Board discussion, Ms. Rotella stressed the importance of technology in the district. Ms. Rotella stated in 1999 the State came up with a three-year technology plan which was how each district envisions technology down the road. Ms. Rotella stated so many goals that had been set were accomplished. She thanked the Board for their continued support in meeting the district's technology vision. Ms. Rotella thanked the community members for their involvement as well.

Ms. Leidner asked what the guidelines are that must be followed, expressing concern over the amount of money allocated for 2011-12. Ms. Rotella responded.

There were no comments or questions from the public. With all Board members present voting in favor, the foregoing was adopted.

* * * * *

I, Dennis DeMarino, Business Administrator and Secretary of the Board of Education, Township of Woodbridge, hereby certify that the foregoing is a true and exact copy of the Minutes taken at the Board of Education meeting held April 29, 2010.


Dennis DeMarino

d

May 3, 2010

Board Approval – Budget – May 18, 2010

**DEPARTMENT:
TECHNOLOGY**

	ACCOUNT NUMBER	ACCOUNT NAME	2011 APPROP
1	11000252339-77-ZAATC	Interlocal Consultants	111,650.00
2	11000252340-77-BAA01	Software Consultant	0.00
3	11000252340-77-ZAATC	Network Maintenance	135,000.00
4	11000252500-77-ZABT1	Software License- Routing	8,000.00
5	11000252500-77-ZABT2	Software Lic Media	65,535.00
6	11000252500-77-ZABT3	Educational Software	64,856.00
7	11000252500-77-ZABTC	Software License	230,000.00
8	11000252590-77-ZTR00	Computer Training	0.00
9	11000252592-77-ZABTC	Software Lic Spec Ed	10,000.00
10	11000252640-77-ZDF00	Online Texts/courses	6,732.00
11	11000261420-77-ARP00	Contracted Services	10,000.00
12	11000261420-77-CRPTC	Technology Repair Svc	15,000.00
13	11190100610-77-ZLATC	Computer Supplies	62,265.00
14	11190100615-77-ZLATC	Capital Supplies - Comp	0.00
15	11190100320-77-ZAA00	Internet Access Fees	90,000.00
16	11190100440-77-ZLPTC	Lease/Purch Technology	0.00
17	12000100732-77-BAD00	Equipment - Technology	0.00
		TOTAL	809,038.00

Superintendent

May 18, 2010

The Superintendent of Schools presents the following recommendations:

1. That the Board of Education approve the following resolution:

WHEREAS, the Board of Education budget for the 2010-2011 school year in the amount of \$154,292,890.00 was defeated by the public at the Annual School Election; and

WHEREAS, the Municipal Council having proposed budget reductions in the amount of \$1,034,734.00; and

WHEREAS, the said reduction shall not impair the ability of the district to provide a Thorough and Efficient Education in accordance with the core curriculum content standards adopted by the State Board of Education.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Education accept the \$1,034,734.00 reduction as approved by vote of the Municipal Council; and

BE IT FURTHER RESOLVED, that the Board of Education reduce the amount to be raised by taxes for the 2010-2011 school budget by the sum of \$1,034,734.00 thereby, requiring a tax levy in the amount of \$153,258,156.00; and

BE IT FURTHER RESOLVED, that a certified copy of this Resolution be forwarded by the Municipal Clerk of the Township of Woodbridge to the Middlesex County Board of Taxation, and to the Middlesex County Superintendent of Schools.

- D. A board-approved budget for each successive year of this plan must be filed with the technology plan for e-rate auditing purposes.
- E. Provide your technology plan's creation date,'[which as defined by e-rate is the point when these five elements are in your plan.

Those elements are:

- goals and strategies for using telecommunications and information technology;
- a professional development strategy;
- an assessment of telecommunications services, hardware, software, and other services needed;
- budget resources; and
- an ongoing evaluation process.

Plan Creation Date: November 10, 2009

VII. PROFESSIONAL DEVELOPMENT

- a. Provide the name and title of the person responsible for coordinating the professional development activities as stated in the District's professional development plan and noted in this plan.*

Lois Rotella, Assistant Superintendent for Curriculum and Instruction

b. Describe the planned professional development activities for teachers, administrators, and school library media personnel that include:

The National Education Technology Plan and International Society for Technology Education (ISTE) have set and continuously updated national technology standards for students, teachers and administrators to keep pace with technological advances. These standards define the fundamental concepts, knowledge and skills needed to successfully integrate technology across an educational setting. Based on these standards, the Woodbridge Township School District has set the following standards for its teachers and educational leaders:

- *Teachers will engage students in exploring real-world issues and solving authentic problems using digital tools and resources.*
- *Teachers will promote student reflection using collaborative tools to reveal and clarify students' conceptual understanding and thinking, planning and creative processes.*
- *Teachers will be able to implement curriculum plans that include methods and strategies for applying technology to maximize student learning.*
- *Teachers will develop technology-enriched learning environments that enable all students to pursue their individual curiosities and become active participants in setting their own educational goals, managing their own learning and assessing their own progress.*
- *Teachers will collaborate with students, peers, parents and community members using digital tools and resources to support student success and innovation.*
- *Teachers communicate relevant information and ideas effectively to students, parents and peers using a variety of digital-age media formats.*
- *Teachers will model and facilitate effective use of current and emerging digital tools to locate, analyze, evaluate and use information resources to support research and learning*
- *Teachers will advocate, model and teach safe, legal and ethical use of digital information and technology, including respect for copyright, intellectual property and the appropriate documentation of sources.*
- *Teachers will address the diverse needs of all learners by using learner-centered strategies providing equitable access to appropriate digital tools and resources.*
- *Teachers will promote and model digital etiquette and responsible social interactions related to the use of technology and information.*
- *Teachers will develop and model cultural understanding and global awareness by engaging with colleagues and students of other cultures using digital-age communication and collaboration tools.*
- *Educational leaders inspire and facilitate among all stakeholders a shared vision of purposeful change that maximizes use of digital-age resources to meet and exceed learning goals, support effective instructional practice and maximize performance of District and school leaders.*
- *Educational leaders ensure instructional innovation focused on continuous improvement of digital-age learning.*

- *Educational leaders model and promote the frequent and effective use of technology for learning.*
- *Educational leaders allocate time, resources and access to ensure ongoing professional growth in technology fluency and integration.*
- *Educational leaders promote and model effective communication and collaboration amongst stakeholders using digital-age tools.*
- *Educational leaders recruit and retain highly competent personnel who use technology creatively and proficiently to advance academic and operational goals.*
- *Educational leaders ensure equitable access to appropriate digital tools and resources to meet the needs of all learners.*
- *Educational leaders promote, model and establish policies for safe legal and ethical use of digital information and technology.*
- *Educational leaders promote and model responsible social interactions related to the use of technology and information*

The District created a technology proficiency survey to determine teacher technology proficiency. The results of these findings will continue to assist the District in determining our professional development needs.

1. How ongoing, sustained professional development for all administrators will be provided to further the effective use of technology in all learning environments.

Administrators will be provided with meaningful staff development to enhance the effective use of technology. Administrators have attended professional development sessions pertaining to technology at the NJ School Boards Convention, Genesis Workshops, NJ Principal and Supervisors Association Convention, National Business Education Association Conference, NJ Association School Administrators TECHSPO Conference, Association of Staff Development and Curriculum, National Educational Computing Conference, District-created workshops and seminars.

Ongoing, sustained professional development for all administrators is provided to further the effective use of technology in the schools. The District's administrators have access to technology including desktops, laptops, PDAs, etc. Woodbridge Township School District offers all of its staff members the opportunity to develop their technological skills through the District-run technology academies. These technology academies allow administrators to earn certification in Microsoft Office Applications so that they can effectively assist teachers integrate technology into their classrooms. The District also works with local colleges and universities to provide our administrators with a collection of resources to guide their staff in using technology as a tool to raise student achievement in the classroom.

2. How ongoing, sustained professional development for all staff will be provided that furthers the effective use of technology, models 21st century skills and demonstrates global outreach and collaboration in the classroom or library media center.

The District has been able to successfully implement its long range instructional technology plan. As a consequence, we have been able to install computer networks and wireless units in all of our schools. Teachers continue to have access to networked computers and wireless labs throughout the District. The focus of the District's professional development for teachers and library media personnel will be providing training on how to infuse technology into the curriculum and to meet the 8.1 Technology Standard and help teachers earn their mandated hours of professional development. Professional development activities will address the needs of the teachers and the goals and objectives of the District. Two resources used for professional development are the local ETTC and local universities. Annual membership vouchers are purchased by the District as both the ETTC and local universities provide high quality staff development tailored to the needs of the staff in their instructional areas. ETTC also completes on-site training within the District, which allows easier accessibility. Ongoing sustained professional development will be provided to staff in various ways, including:

- Fall/Winter/Spring/Summer Staff District Professional Development Technology Academies
- Faculty/Department Training Sessions
- District Staff Development Days
- ETTC Workshops
- Workshops and Courses at Rutgers and Kean Universities
- ISTE archived Webinars

Other workshops include:

NJPSA Convention	Gameshow Prep Training
The Creative Workshop/Math/Technology	NJ Art Convention
Clicking With Technology	NJASA Techspo
Designing Creative Schedules for High School	ISTE Archived Webinar Series
Differentiated Assessment and Grading	Using Tech. To Engage Students in Discovery
Differentiating Instruction/Literacy	Using iPods, Blogs and Pod casts
Every Child Learns Differently	17 th Annual Literacy for All NE K-6 Literacy
Internet Connections for Connected Math	Student Information System: Genesis
Internet Resources to Support Student Testing	Using iPods for Special Needs Students
ISTE NECC	Webinar Training: Technology Challenge
NJBTEA Conference	National Business Education Association Conf.
Using Interactive Whiteboards in the Classroom	NJ GMIS – Government Management Information Systems
Training Series on the Integration of Assistive Technology into the Educational Process	Creative Classroom/Integrating Math & Technology

The District understands that professional development for teachers/staff is critical if they are to attain the skills and knowledge necessary to effectively use educational technology to assist students to achieve the NJ Core Curriculum Content Standards. The District has adopted the ISTE's New Learning Environments:

Traditional Learning Environments	New Learning Environments
Teacher-centered instructions	Student-centered learning
Single-sense stimulation	Multisensory stimulation
Single-path progression	Multipath progression
Single media	Multimedia
Isolated work	Collaborative work
Information delivery	Information exchange
Passive learning	Active/exploratory/inquiry-based learning
Factual, knowledge-based learning	Critical-thinking and informed decision-making
Reactive response	Proactive/planned action
Isolated, artificial context	Authentic, real-world context

3. The professional development opportunities and resources that exist for technical staff.

Technical staff is provided with opportunities and resources to enhance their skills by attending technical training provided by New Horizons Corporation and by the Woodbridge Township Technology Department through our inter-local technology agreement. This includes, but is not limited to:

- Operating systems updates
- Administrative software
- Technical issues
- Incorporating assistive technology tools
- Attaining technical certification

4. How professional development is provided to all staff on the application of assistive technologies to support all students in their learning.

School computer liaisons, the Middle School Computer and Information Literacy Resource teacher and the Child Study Team members will provide in-service training to all staff on the application of assistive technologies to support all students in their learning through presentations at faculty meetings.

- c. *Based on educators' proficiency and the identified needs for professional development, describe only the ongoing, sustained high-quality professional development opportunities planned for 2010-2011 as they relate to the infusion of technology into the curricular process. Include a description of in-class support, such as coaching, that is used to ensure effective use of technology to improve learning. Also, include a description of the involvement of all partners associated with professional development for the district.*

Using Survey Monkey, the District conducted a needs assessment in 2010. The data will be examined and analyzed to develop a three-year themed staff development program regarding continued technology integration and implementation. High quality, meaningful professional development will be offered as a critical component of the curricular process through the District technology academies offered throughout the year. Archived webinars are offered throughout the year to all staff. School Computer Liaisons in each building will support this training as well as the Middle School Computer and Information Literacy Resource Teacher. In addition, the local ETTC, colleges and universities also offer ongoing, sustained high-quality professional development opportunities. All stakeholders including staff, trainers and organizations, will be responsible for enhancing student achievement through the use of instructional technology.

D. Project professional development activities that will continue to support identified needs through 2013, including all partners.

Professional Development activities will evolve to include new successful, research-based programs that incorporate technology into existing practice, as well as allow us to develop and carry out new curricula and methodologies.

The District recognizes its continued responsibility to offer professional development to all staff in order to ensure that the technology standards are met. Based on research set forth by ISTE, observations from faculty, staff and administrators and formal/informal meetings, the District continues to offer the following professional development courses and/or workshops on an annual basis:

- Flexible hours after school Fall Professional Development Academy, which includes a variety of 2 – 10 hour technology *how-to* courses.
- Spring Professional Development Academy, which includes a variety of 2 – 10 hour *how-to Best Practices* sessions.
- Summer Tech Academy: A week-long academy of intense 5-hour per day courses leading to technology literacy certification and project-based classroom activities. Courses are offered at the beginner, intermediate and advanced levels.
- Continual training for entire District in the different modules of Genesis Student Management System.
- Tech Time on Demand: offers an extensive 10 – 12 hour academy of technology application and integration courses whenever the demand arises from a particular group of teachers, grade level, subject area or building.
- ETTC/Universities: Full-day session classes offered on an “as-needed” basis. This is for courses we may not be able to offer through our personnel.
- Webinars: faculty and staff participate in archived content appropriate web-based training.
- Monthly elementary/secondary school computer liaison training sessions.
- Turnkey workshops in every building to meet the needs of the faculty and staff as they arise.
- Integrated technology within the classroom; classroom activities; project-based; relevant, replicable activities that can be used in the classroom; curriculum connected and the standards.
- Archived webinars.
- Professional learning communities at the school level such as blogs, Ning, Facebook and Twitter.

The District recognizes that staff members are valuable resources in the creation and facilitation of professional development sessions. To continue and expand these best practices, the District offers a Technology Academy with courses highlighting superior technology practices of District staff members.

VIII. EVALUATION PLAN

Evaluation Plan Sample Table

Describe the evaluation process and accountability measures that monitor progress and mid course corrections that are used to regularly evaluate the extent to which goals, objectives, activities, resources and services are effective in

- 1. Integrating technology into curricula and instruction to promote 21st century skills and global collaboration and outreach,*
- 2. Enabling students to meet challenging state academic standards, and*
- 3. Developing life-long learning skills.*

Three-Year Technology Plan Evaluation Narrative

Describe the process to regularly evaluate this plan as effectively. . .

a. Integrating technology

All District Goals will be evaluated by the School District's Elementary, Middle and High School Task Forces, the Professional Development Committee, the Assistant Superintendent, Principals, Supervisors and the District Computer Liaison. The Central Office Leadership Team (COLT) will evaluate funding, and the infrastructure will be under the direction of the COLT and the District technology team. These evaluations will provide an ongoing review that will drive any changes and/or adjustments that may be necessary over the 2010-2013 school years. Using this process ensures that assessment and evaluation will be from a whole-school perspective.

- Monthly Tech Team meetings
- Board of Education Technology Committee Meetings
- Elementary/Secondary Computer Liaison Meetings
- District Instructional Council Meetings
- Municipal Advocacy Committee on Education (MAC-E)
- Perkins Advisory Committee Meetings
- Monthly Elementary/Secondary Principals' Meetings
- WTEF – Woodbridge Township Education Foundation

b. Enabling students to meet challenging state academic standards

The leadership team of the Woodbridge Township School District continuously evaluates instructional activities to ensure the effective integration of technology. Throughout the 2010 – 2013 school years we will involve parents, staff and students to evaluate our programs to ensure increased technology proficiency in all content curriculum areas. This is implemented through curriculum evaluation and revision, delivery of digital content, using standard-based online software for 24-hour access and using Web 2.0 technologies. In addition, the Superintendent holds Student Advisory Meetings and gives students an opportunity to voice the concerns of their peers regarding their education.

c. Developing life-long learning skills

Our District believes that learning is something that occurs on an ongoing basis from our daily interactions with others in the world around us. This learning takes place throughout life in a variety of situations including school. Through the participation in collaborative global learning and real-time communication, students practice information literacy skills that can be used throughout their lives for time management, college and career readiness, connections between school-based projects and real life experiences and the pursuit of knowledge for either personal or professional reasons.

**Technology Plan Evaluation Table
2010-2013**

Area to describe process and accountability measures to evaluate goals, objectives and activities	Description of how these measures will improve education	Timeline
Hardware	<p>Desktops, laptops, calculators, LCD projectors, PDAs...</p> <p>These resources will promote and facilitate the activities that will support the integration of technology into NJ CCCS.</p>	Sept. 1, 2010 – June 30, 2013
Software	These resources are used for instructional planning and implementation; they are used to improve all segments of instruction by enhancing the seamless integration of technology.	Sept. 1, 2010 – June 30, 2013
Telecommunications Services	These resources are used for communication within and outside the District. It is this service that provides access to our TV channels, the Internet, Intranet and all web-based programs and databases to which the District subscribes.	Sept. 1, 2010 – June 30, 2013
Other Services	This plan encompasses all resources that deliver, integrate and enhance technology within our school District thus enhancing student achievement.	Sept. 1, 2010 – June 30, 2013