

Oneida-Herkimer-Madison BOCES

**2008 - 2011
Technology Plan**

ACKNOWLEDGEMENT

The Oneida-Herkimer-Madison *2008-2011 BOCES Technology Plan* for the implementation and utilization of technology has drawn upon a wide range of sources and involved many individuals. The planning team would like to acknowledge the contributions of all the teachers and staff who participated in the technology survey; these individuals gave their valuable time to provide the planning team with much needed input upon which to formulate the plan.

The BOCES Technology Committee members listed below also gave many hours to develop this plan and provided the vision the future will require.

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Oneida-Herkimer-Madison BOCES 2008-2011 Technology Plan

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INTRODUCTION

The Oneida-Herkimer-Madison BOCES' 2008-2011 Technology Plan is intended to be consistent with and supportive of the BOCES' educational mission and program initiatives. The 2008-2011 Technology Plan is focused on the use of technology to transform education and to improve student performance, as envisioned in the New York State Learning Standards. The plan was developed from the strong belief, supported by research, that technology can significantly enhance the learning environment, increase staff productivity, and improve the teaching and learning process. Furthermore, technology is seen as a critical component in the preparation of our students. The 2008-2011 BOCES' Technology Plan defines the vision and objectives for using technology to advance students, teachers and the Oneida-Herkimer-Madison BOCES educational community forward in the 21st century.

BOCES Mission Statement

The mission of Oneida-Herkimer-Madison BOCES is to coordinate the response to the community's emerging educational needs to enable the component school districts to develop and accomplish their missions by providing innovative leadership and unique outcome-based instructional and management services through partnerships with business/industry, state, regional, educational and community based organizations.

Statement of Beliefs and Values

The belief system which influences and guides all decisions made at Oneida-Herkimer-Madison BOCES is built on a solid foundation of values which speak to the personal, the educational, and the organizational dimensions.

An organization is as strong and viable as the people who accept its core beliefs. In terms of the exceptions, values and activities of its people, Oneida-Herkimer-Madison BOCES believes that:

- mutual respect and responsible behavior are essential to a democratic and free society;
- each individual has worth;
- the continual alignment of personal abilities and goals is essential to shaping one's future;
- effective communication is essential for all successful relationships;
- self-confidence is essential in reaching one's potential; and
- people are accountable for the decisions they make.

As an organization dedicated to the improvement of all phases of instruction for all students, Oneida-Herkimer-Madison BOCES bases educational decisions on the following beliefs:

- all people can learn;
- everyone has the right to an environment that enhances learning; and
- the family, in all its forms, is the primary influence upon the development of the child.

Finally, as an organization working with both internal and external customers, Oneida-Herkimer-Madison BOCES strives to act on the following beliefs:

- continually identifying and meeting the needs and requirements of the customer are essential to the survival of the organization;
- teamwork is valued more than individual efforts in achieving the common goals of the organization;
- high expectations encourage higher results; and
- change creates opportunities.

Stakeholder Involvement

The following groups are the primary stakeholders in the development and implementation of the Oneida-Herkimer-Madison BOCES Technology Plan.

◆ **Instructional Stakeholders:**

- Alternative Education Supervising Principal
 - ⇒ Alternative Education Principal
 - ⇒ Alternative Education Faculty and Staff
- Continuing Education Director
 - ⇒ Continuing Education Staff
- Special Education Principal
 - ⇒ Special Education Faculty and Staff
 - ⇒ Special Education EAP Team
- Career & Technical Education Principal
 - ⇒ Career & Technical Education Center Technology Planning Team
 - ⇒ Career & Technical Education Center EAP Team
 - ⇒ Secondary Programs Faculty and Staff
- School To Work Program

◆ **Administrative Stakeholders:**

- District Superintendent
- Assistant Superintendent for Administrative Services
 - ⇒ Administrative Support Staff
- Assistant Superintendent for Instruction
 - ⇒ Instructional Support Staff
- Information and Technology Director
 - ⇒ Information and Technology Division Staff
- Program and Professional Development Director
 - ⇒ Program and Professional Development Staff

TECHNOLOGY'S IMPORTANCE

Technology assists students to develop skills in the following areas:

- Decision making
- Experimental inquiry
- Invention
- Investigations
- Problem solving
- System analysis

Secondly, technology is important to a learning organization such as the Oneida-Herkimer-Madison BOCES in that it addresses the following points.

◆ **Technology:**

- motivates and empowers students because it actively engages them in learning.
- involves the use of tools (such as word processing, graphics, presentation software, databases and the Internet) to interact with others, both students and adults, in order to acquire and share knowledge.
- impacts learning positively and significantly, based on a wide range of research studies.
- creates information and knowledge producers, not just consumers. Students and teachers today can research and electronically publish their work on the World Wide Web, as they collaborate with other "researchers" from around the world.
- creates the opportunity for up-to-date and authentic learning experiences by student involvement in real-world projects and interacting with real-world professionals.
- is a powerful "mind" tool (analogous to a physical tool such as a lever) that students can use for accessing and manipulating information, synthesizing concepts and communicating ideas in video, text and audio media.
- prepares students as 21st century information workers and helps them to achieve world class standards and global competitiveness.
- allows teachers to individualize learning experiences based on learner needs and to better organize and track student progress.
- enables student discovery and exploration of alternatives through software simulations. These simulations provide the opportunity to explore new concepts and environments without the time, cost or danger associated with many real-world situations.
- expands the capabilities of library resources beyond the classroom by providing students with learning opportunities and curricular resources in a variety of formats.
- connects individuals to new people and promotes understanding and equity by providing a diverse array of resources and experiences regardless of the geographic location.
- offers a multimedia interactive learning environment that is more motivating to today's students who have grown up with television and video games.
- increases teacher and administrative productivity by providing tools which increase the efficiency of entering and analyzing data.
- allows teachers and students to access digital curriculum resources.
- offers a digital environment for both students and teachers to add video and audio clips to lessons, reports and presentations.

These points support and explain the BOCES' vision of a technology-supported learning environment, and are important for all members of the school and the larger community to understand.

TECHNOLOGY SUPPORT FOR THE LEARNING STANDARDS

To increase student achievement and to enable all students to demonstrate proficiency in the Learning Standards, it is essential to change instructional practice. As noted in earlier sections of this plan, technology creates information and knowledge users by actively engaging the learner. Technology also encourages teachers to individualize learning experiences based on learner needs.

For example, the New York State Education Department's (NYSED) Learning Standards CD ROMs on *English Language Arts, Mathematics, Science, and Technology, Social Studies*, and the *Statewide Systemic Initiative's (SSI) Just Think CD ROM* can be used by teachers to develop lessons and assessments connected to the State standards. The CD ROMs can also be used by the students to extend and refine their knowledge of the core competencies aligned to the standards.

Additionally, use of access to the Internet can connect students and teachers in different locations for enrichment, instruction, and cooperative projects with peers in other schools throughout the country and world.

The uses of technology to support the Learning Standards are limited only by the teacher's knowledge, creativity and innovation.

BOCES INFRASTRUCTURE

The Oneida-Herkimer-Madison BOCES encompasses six locations in the Utica-New Hartford, NY area.

- Career & Technical Education Center
- Information & Technology Center
- James Street Academy
- Lincoln Academy
- Program and Professional Development Center
- Special Education/Administration Building

BOCES Wide Area Network (WAN)

The main Administrative/Special Education building, Career & Technical Education Center and Program and Professional Development (PPD) offices are all located on the Middle Settlement Road campus in New Hartford. These buildings are interconnected via fiber optic cable on campus.

Remote sites are the Information and Technology Center on 502 Court Street in Utica, James Street Academy and Lincoln Academy also both located within the city of Utica. The remote BOCES sites are all connected by either T-1 telecommunications lines or by the BOCES wide area network (WAN).

In addition, the Middle Settlement Road site serves as a regional hub for the Oneida-Herkimer-Madison BOCES as well as its component school districts as part of the larger WAN administered and maintained by the Mohawk Regional Information Center (RIC). The WAN provides network users with online access to many functions including file transfer capability, e-mail, Internet access, administrative student information systems, financial applications, regional library database. The WAN offers Oneida-Herkimer-Madison BOCES and its component school districts increased bandwidth that enables schools to be able to offer the following additional services: IP Telephony, Video Streaming (see

appendix C) and Video Conferencing. The use of the on-line services and resources available over the WAN are governed by the BOCES *Internet Safety Policy* (see appendix A).

The larger Mohawk Regional Information Center WAN is comprised of over 250 file servers and serves over 50 school districts in five counties of Central New York State. A staff of telecommunications specialists, programmers, technicians and other experts support the infrastructure on behalf of participating school districts.

Distance Learning Network

The Oneida-Herkimer-Madison BOCES Distance Learning Network is the cornerstone for the future expansion of educational opportunities in this region. The network (see appendix D) is comprised of 100 Meg telecommunication linkages from each component district back to BOCES. The network has the capability and capacity to connect all twelve component school districts, the BOCES complex, area colleges and other BOCES regional networks.

The network has the capability of interconnecting multiple sites, at one time, to form a single electronic classroom. The fiber infrastructure also has the capability of providing a data connection from each participating district to the network hub. The Mohawk Regional Information Center connects to the hub to form a seamless access for district Internet and data transmission services. The network will be expanded, in the near future with the use of IP Video Conferencing, to connect with other BOCES Distance Learning Networks in the Central New York region.

The following sites are on the network as of the 2008-2011 school year (see appendix E).

- Brookfield Central School
- Holland Patent Central School
- New York Mills Union Free School
- Oneida-Herkimer-Madison BOCES
- Oriskany Central School
- Remsen Central School
- Sauquoit Valley Central School
- Town of Webb Union Free School
- Utica City School District
- Waterville Central School
- Westmoreland Central School

IP Video Network

The Oneida-Herkimer-Madison BOCES will install HDX 9002, (People and Content VSX 7000 and ViaVideo Desktop Communication Systems) in each participating elementary school in order to improve student access to educational content and teacher access to professional development opportunities (see appendix F).

The equipment will contribute to the development of the region's distance learning program and expand IP video conferencing capabilities. With this equipment students will have the opportunity to participate in virtual fieldtrips and expand the resources available to learn and develop the skills necessary to master challenging NYS educational standards. Teachers will have the ability to participate in professional development from a variety of resources without the additional expense of travel and loss of classroom time that traditionally prevents participation in many such opportunities. Through the installation of this equipment the collaboration of districts will continue to develop and improve. Classrooms will be able to participate in projects among many districts, increase the ability to share ideas and interests and develop technology skills that prepare them for life in the workforce.

Hardware Inventory [06/01/2007]

Location	Networked PC's	Networked Macs	Printers	Servers
Instructional				
Alternative	37	0	25	2
Career & Technical Education Center	208	40	118	3
Itinerant	39	0	0	0
Regional Program for Excellence	4	0	2	0
SABA	10	0	10	0
Special Education	63	0	47	2
Tech Prep	2	0	2	0
Administrative				
District Superintendent	3	0	3	0
Assistant Supt. for Admin. Services	29	0	28	1
Assistant Supt. For Instruction	2	0	2	3
Information and Technology Center	33	1	32	17
Program & Professional Development	25	0	26	2
Total	455	41	295	30

Software Inventory (06/01/07)]

Adobe Acrobat Reader	Finance Manager	OSHA Hazard
Adobe Photoshop	IEP Plus	Pagekeeper
Aldus Freehand	Johnson Grade Quick	PageMaker
Aldus Pagemaker	Macintosh Basics	Pagemill
Aldus Persuasion	Macintosh PC Exchange	PC Anywhere
Autocad	Master Cam	Printshop Pro
Calendar Creator Plus	Matrox Power Desk	Quark Express
Calendar Maker	McCarron for Scoring	Rediker Administrators Plus
Career Zone	Microsoft FrontPage	Report Writer
CCC Enterprise	Microsoft Outlook	Solidworks
Claris Draw	Microsoft Publisher	TEK Data
Claris Impact	Microsoft Works	UPS Online Worldship
ClarisWorks	MS Office 97	WinCap
Corel Draw 8.0	MS Office 2000	Windows 98
Corel Professional Photos	MS Office 2002	Windows 2000
Corel Ventura	MS Office 2003	Windows XP
Crystal Reports	Netscape Communicator 4.0	Woodcock Johnson
Doctor Dilemma	Norton Antivirus	
FAME	NovaNet	
Filemaker Pro	OS 7.5	

BOCES Telephone Network (see appendix G) [06/01/2007]

Division	I2004	I2002	Digital	Single Line	Fax Machines
Administrative	20	31	5	0	10
Information & Technology	7	27	0	9	6
Instructional	12	34	39	108	7
Program & Professional Development	5	11	0	2	2
Total	44	103	44	119	25

THE BOCES ORGANIZATION

The Oneida-Herkimer-Madison BOCES is comprised of four divisions. They are:

Administrative Services

The primary goal of the Administrative Services Division is that all school district employees/students served will acknowledge that the Division has played an integral part in supporting the business and administrative functions of the school districts.

Programs provided:

- Bus Driver Testing
- Central Business Office
- Certification
- Employee Assistance Program
- Employee Benefits Coordination
- Facilities Services
- Fingerprinting
- In-District Safety Specialist
- Inspection Services
- Insurance Consortium
- Mohawk Regional Information Center
- Personnel Clerk
- Records Management
- Safety Coordinator
- School Food Service
- Staff Development - Transportation
- Teacher Recruitment System

Information and Technology Services

The mission of the Information and Technology Division is to provide leadership and coordination for cost efficient access to information, resources and services that support instruction and administrative management for local, regional and statewide participants.

Programs provided:

- Common Learning Objectives
- Distance Learning
- Library Automation Services
- Media Services
- Model Schools
- Portable Planetarium Service
- Printing Services
- School Communication Service
- School Library System
- Substitute Teacher Calling Service

- Technical Repair Services
- Telecommunications
- Telephone InterConnect

Instructional Services

The mission of the Instructional Services Division is that each student will demonstrate adequate preparation for the adult world, communicate effectively, be a participating member of society, and recognize that (s)he is a meaningful member of society.

Programs provided:

◆ **Academic and Itinerant Programs**

- Academic Itinerant Service
- Advanced Placement Program
- Incarcerated Youth Program
- Primary Mental Health Project
- Summer School

◆ **Alternative Education**

- James Street Academy
- Lincoln Academy
- Regional Summer School Program

◆ **Career & Technical Education Center**

- Alternative High School Equivalency Program
- Continuing Education
- High School Equivalency Program
- Secondary Career & Technical Education Programs
- Special Needs Vocational Education
- Teenage Parenting Program
- Regional Program for Excellence

◆ **School-To-Work**

- School and Business Alliance (SABA) Career Awareness
- Career Pathways

◆ **Special Education Programs and Services**

- 8:1:1 Center-based Program
- 8:1:1 School-based Program
- 8:1:1 Day Treatment Program
- 12:1:1 Adjustment Program
- 12:1:1 School based Programs (Mild, Moderate and Transition)
- 12:1:1 TRIAD/GED Workforce Preparation Program
- 12:1:3 Severe & Profound Program
- Preschool Program for Students with Disabilities
- Summer School Special Education Programs (School-age and Preschool)
- Related Services for BOCES Special Education Programs
- Special Education Itinerant Services
- Transitional Planning and Implementation Service
- Vocational Assessment for Students with Disabilities
- Oneida County Crisis Residence Program

- Incarcerated Youth Program
- Non-Secure Detention Home

Program and Professional Development

The mission of the Program and Professional Development Division is to provide districts with the resources to enhance the knowledge, skills and attitudes needed to fulfill their missions.

Programs provided:

- Center State Teacher Center
- Elementary Science Center
- Performing Arts
- Research, Development and Planning
- School/Curriculum Improvement Service
- Special Education Training and Resource Center (SETRC)
- Tobacco Specialist

BOCES Staffing (1.0 FTE)

Division	Administrators	Supervisors	Instructional	Non-Instructional
Administrative	3	7	0	30
Information & Technology	4	2	0	31
Instructional	9	2	257	17
Program & Professional Development	4	1	0	9
Total	20	12	257	87

THE NEEDS ASSESSMENT PROCESS

The original three-year Technology Plan for the Oneida-Herkimer-Madison BOCES was developed for the years 1996-1999. This was followed by Technology Plans for the years 1999-2002, 2002-2005, and 2005-2008. The preparation for the *2008-2011 BOCES Technology Plan* began with a re-evaluation of the previous plans.

Kenneth Ford, Director of Information and Technology, developed a timeline (see appendix H) and process to evaluate the plan currently expiring and to begin the procedures for developing a new plan (see appendix I & J). The BOCES Technology Committee that was charged with the overall responsibility for the Technology Plan adopted the timeline and procedures.

Each division director met with appropriate supervisors and staff on several occasions to determine the status of technology implementation within each department. Teachers and staff members were asked for input in the following areas:

- ***What technology they currently use to do their job?***
- ***What technology they need to perform their jobs better or more effectively?***
- ***What anticipated needs they may have in the next three year?***

Kenneth Ford, Deborah Bauder and Kim Casselman, assisted various departments during the course of the evaluation and planning process for the development of the *2008-2011 BOCES Technology Plan*.

In addition, Task Force leaders (see appendix K) met on several occasions to review and refine the information gathered, as well as, to insure the planning timetable was met.

BOCES GOALS

In August, 1998, the Oneida-Herkimer-Madison Board of Cooperative Educational Services met and adopted three fundamental goals for the organization. These goals are:

To improve student performance
To improve teaching and learning
To improve overall efficiency and effectiveness.

Technology Objectives to Meet BOCES Goals

I. ***TO IMPROVE STUDENT PERFORMANCE***

◆ ***Students and/or staff will:***

- learn content, develop basic skills, use study skills strategies and expand life skill applications.
- apply software to learning and instructional practices.
- enhance computer skills.
- incorporate and expand technology usage as a tool for completing assignments.
- create a resume using word processing software.
- use software for instructional needs in Science, Math, Social Studies and Language Arts.
- conduct an oral presentation incorporating computer technology.

- demonstrate computer literacy in the areas of e-mail, electronic research, word processing, spreadsheets and databases.
- design a web page related to their course of study.
- complete and publish a portfolio project using computer technology.
- conduct research in electronic format.

II. TO IMPROVE TEACHING AND LEARNING

◆ Students and/or staff will:

- incorporate technology as an integral part of each program of study.
- expand the distance learning network to component schools and other BOCES regions.
- access pertinent informational resources on the Internet and WAN.
- expand access to the School Library System's regional catalog on-line.
- utilize resources on the School Library System web page.
- preview media resources on-line.
- expand access to electronic library resources.
- explore the capabilities of video streaming and Digital Video Discs (DVD).
- integrate technology with classroom instruction.
- utilize technology to support program management.
- organize school/class web pages and international pen pals.
- create internal and external newsletters.
- implement consultant committee recommendations regarding technology.
- work cooperatively with technical support staff to explore the use of the software for integrated learning in the classroom as it related to English Language Arts (ELA) , Math, Social Studies and Science.
- publish lesson plans and activities on the Internet.
- use the distance learning network for teleconference and staff development.
- design and deliver instruction through the use of multi-media presentations.

III. TO IMPROVE OVERALL EFFICIENCY AND EFFECTIVENESS

◆ Students and/or staff will:

- use Microsoft Office Suite at the appropriate level.
- effectively utilize and maintain existing WAN.
- train clerical staff to compete purchase orders using WinCap
- process payroll using WinCap.
- implement a new accounting, payroll, and contract adjustment billing system.
- share files and printers on-line.
- develop a Human Resource database.
- upgrade hardware to maintain continuity within CBO/Divisions.
- better utilize databases created by BOCES' divisions.
- continue sysop certification training.
- access pertinent financial and technological information off the Internet.
- update office technologies.
- explore the potential for accessing a copier system from computer work stations.
- maintain the telecommunication linkage for the Oneida-Herkimer-Madison BOCES Distance Learning Network.
- develop bid specifications for adding sites to the distance learning network.

- expand web page development and management services.
- provide quality reproducible copy.
- test equipment in a real life environment.
- track inventory and provide billing more effectively.
- keep current with technology advances.
- electronically engrave plastic signage.
- explore the need for increased bandwidth.
- electronically book interlibrary loan requests.
- increase efficiency of web page development and document design.
- utilize barcoding technology.
- incorporate multi-media technologies into public relations products.
- keep current with advances in technical repair field.
- investigate a software package to document statistics more effectively.
- improve customer service.
- complete pre-press tasks more efficiently.
- develop a database to track student enrollment/ participation and community/employer involvement.
- utilize technology to support program management and facilitate delivery of services to students and component districts.
- utilize software/hardware as defined by BOCES standards.
- develop an Alternative Education web site highlighting program policies.
- maintain and utilize Telephone InterConnect and Telecommunications services.

Oneida-Herkimer-Madison BOCES Building Project

Oneida-Herkimer-Madison BOCES building project was approved by voters on February 13, 2007. The construction will take place over a 3 year period with ground breaking scheduled for the spring of the 2007-2008 school year. Three phases of construction will be completed as follows:

Phase 1: Construction of a new facility for Special Education and Pinefield

Phase 2: Renovation of the Career and Technical Education facility

Phase 3: Renovation of the existing Administration building to house Alternative Education which will combine the students from Lincoln Academy and James Street Academy

All phases of construction will include the upgrade of the existing data lines, telephone, security system and heating, ventilation and air conditioning (HVAC).

Technology Objectives 2008/2009

Division: Administrative Services

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
CBO	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$500	Technical support \$2,700	\$3,200
Business Office	upgrade office technologies.	1 network printer \$2000			Installation \$500	\$2,500
	utilize WinCap and Crystal Reports more efficiently.				Technical support \$7,700	\$7,700
	utilize technology efficiently.			Staff training \$500	Technical support \$1,500	\$2,000
	explore the potential for purchasing the Wincap attendance module.		WinCap Human Resources Modules \$12,000	.	Meeting and demonstration with Wincap representative	\$12,000
Human Resources	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$750	Technical support \$800	\$1,550
O&M Safety	upgrade office technologies.	1 LCD Projector \$1400				\$1,400
	maintain cellular phone service.	Rental of 28 cell phones \$7,728				\$7,728
	maintain pager service.	Rental of 9 pagers \$3,024				\$3,024
	upgrade security system.	Install new security cameras and electronic access control \$82,000	Included with hardware	Training for technicians & staff \$2500	Technical support and installation \$15,500	\$100,000
	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$1,200	Technical support \$900	\$2,100
2008-2009 TOTALS		\$100,052	\$12,000	\$5,750	\$29,750	\$147,552

Technology Objectives 2008/2009

Division: Information & Technology Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Distance Learning	maintain telecommunication linkages for the Oneida-Herkimer-Madison BOCES Distance Learning network. (Region Wide)			Staff training \$3,000	Telecommunication costs \$75,000	\$78,000
	continuation of ISDN connections.				Telecommunication costs \$2,500	\$2,500
	expand capabilities of the Distance Learning network to include IP video conferencing. (Region Wide)	<ul style="list-style-type: none"> • 13 video endpoints \$5,200 ea \$67,600 • 13 video carts with 36" video monitors \$1,600 ea \$20,800 		Staff training \$10,000	Maintenance contract \$5,200	\$82,800
					Installation \$6,500	\$27,300
	utilize technology efficiently.			Staff training \$600	Technical support \$300	\$900
School Library System	expand access to electronic library resources.		EBSCO & Gale software \$5,200	Staff training \$400		\$5,600
	upgrade regional union catalog.		DYNIX software \$124,000	Staff training \$750		\$124,750
	utilize technology efficiently.			Staff training \$400	Technical support \$150	\$550
Sub Teacher Calling Service	report absences and obtain a qualified substitute through automated Subfinder system.	System equipment \$1,800	Software lease fee \$9,936	User training \$300	Technical support \$5,136	\$17,172
	utilize technology efficiently.			Staff training \$300	Technical support \$100	\$400
Printing Services	utilize direct to plate system.	Direct to Plate System \$30,000	System software \$2,000	Staff training \$1,000	Installation \$2,000	\$35,000
	utilize technology efficiently.			Staff training \$250	Technical support \$500	\$750

Technology Objectives 2008/2009

Division: Information & Technology Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Technical Repair	upgrade technologies.	<ul style="list-style-type: none"> • 3 Desktop Computers with CD burners \$1400 each \$4,200 • 1 LCD Projector \$950 • 1 Digital Camera \$250 	Microsoft Windows and Office included	Staff training \$6,600	Installation \$100	\$10,900
	utilize technology efficiently.			Staff training \$400	Technical support \$200	\$600
School Communications	upgrade office technologies.	<ul style="list-style-type: none"> • 1 BW Laser Printer - \$2,000 	<ul style="list-style-type: none"> • 2 Windows XP PC licenses pre-purchased 		Installation \$100	\$2,100
	increase proficiency in desktop publishing, design, video editing, Website development, and other supportive software applications.			Staff training \$2,500	Installation \$200	\$200
	upgrade technologies to keep current with clients' needs.		5 Adobe Creative Suite (includes Photoshop CS, Illustrator CS, InDesign CS, GoLive, and Acrobat Professional versions) \$1,200 ea \$6,000	Staff training \$500	Installation \$200	\$6,700

Technology Objectives 2008/2009

Division: Information & Technology Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
School Communications (cont.)	utilize technology efficiently.			Staff training \$300	Technical support \$100	\$400
Elementary Science Center	compatibly with the Oneida-Herkimer-Madison BOCES Print Shop.		Adobe Pagemaker 7.0 \$350	Staff training \$150	Installation \$50	\$550
	upgrade office technologies.	<ul style="list-style-type: none"> • 1 color laser printer \$750 • Desktop letter folder \$300 			Installation \$50	\$800 \$300
	investigate use barcoding for science center kits.			Staff training \$450	Consultant \$1,300	\$1,750
	utilize technology efficiently.			Staff training \$300	Technical support \$200	\$500
Media Services	access to digital content through a variety of vendors and portals.	1 Video server \$3,600	Window Media included	Metadata training, included	Network supervisor support included	\$3,600
	access online catalog. (Region Wide)	1 Tek Data Server Upgrade to TOMMS \$11,000	Proprietary software \$500	Staff training \$1,500	Technical support included \$2,000	\$15,000
	utilize technology efficiently.	<ul style="list-style-type: none"> • 1 Personal Digital Asst. \$400 • 1 desktop computer with CD burner \$1300 	Software included Windows XP included	Staff training \$100 • Staff training \$1,000	Installation \$50 • Technical Support \$500	\$400 \$1450 \$1,500

Technology Objectives 2008/2009

Division: Information & Technology Division

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Telephone Inter-connect	maintain telephone service for Oneida-Herkimer-Madison BOCES and component services. (Region Wide)				Telecommunication costs \$609,110	\$609,110
	reduce cost of long distance telephone service through cooperative bidding. (Region Wide)				Consultants \$10,000	\$10,000
Network Admin.	Upgrade network services monitoring/fault notification by exploring hardware/software solutions.	2 desktop computers \$1,300 ea \$2,600	Network monitoring software \$2,000	Staff training \$500	Research/Testing/Implementation \$1,000	\$6,100
	upgrade Baystack 450 switches in switch stacks.	5 New Switches \$2,600 ea \$13,000			Installation \$200	\$13,200
	additional Port Space in 8600.	1 Switch \$10,000			Installation \$200	\$10,200
	install 1U rack servers for web apps.	1 Server \$1,500	Linux, Apache, My SQL software included		Installation \$200	\$1,700
	create test environment for F/OSS [Free/Open Source Software] on the desktop in the BOCES environment.	5 desktop computers \$1,300 ea \$6,500		Staff training \$1,500	Installation \$1,500	\$9,500
	maintain video streaming software support. (Region Wide)				Technical Support \$6,000	\$6,000
	utilize technology efficiently with ongoing Novell Site License agreement.				license fee \$2,500	\$2,500
	utilize high end technical support for new projects.				Consultant fee \$5,000	\$5,000
	provide support for 8600 IP phone system. (Region Wide)				Maintenance contract \$11,000	\$11,000
Portable Planetarium	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office included	Staff training \$100	Installation \$50	\$1,450
	upgrade portable planetarium presentation equipment.	Presentation equipment \$7,000	Cylinder \$1,000			\$8,000

Technology Objectives 2008/2009

Division: Information & Technology Division

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware Purchases/Rentals	Software	Staff Development	II. Technical Support	Budget Amount
Telephone Inter-connect	expand the capabilities of the IP telephone system. (Region Wide)	<ul style="list-style-type: none"> • 4 ITG cards \$5,000 ea \$20,000 • 10 power switches \$2,600 ea \$26,000 • 500 telephones \$397 ea \$198,500 • cabling \$20,000 	4 software upgrades \$6,000 ea \$24,000	Staff training \$3,000	Installation \$2,000	\$49,000
					Installation \$5,000	\$31,000
				Staff training \$20,000	Installation \$15,000	\$233,500
					Installation \$20,000	\$40,000
Telecommunication Services	maintain Wide Area Network (WAN) connections. (Region Wide)				Telecommunication costs \$170,000	\$170,000
	expand capabilities of Wide Area Network to include video connection. (Region Wide)	<ul style="list-style-type: none"> • 4 access points \$600 ea \$2,400 • 4 powered switches \$2,600 ea \$10,400 • network cabling \$15,000 		Staff training \$5,000	Installation \$1,000	\$3,400
					Installation \$1,000	\$16,400
					Installation \$20,000	\$35,000
Telephone Service	maintain Oneida-Herkimer-Madison BOCES telephone network. (Region Wide)				Telephone Service Cost \$314,000	\$314,000
2008/2009 TOTALS		\$499,150	\$174,986	\$60,900	\$1,718,596	\$2,453,632

Technology Objectives 2008/2009

Division: Instructional Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Instructional Services	upgrade office technologies.	2 printers \$500 ea \$1,000			Installation \$100	\$1,100
	utilize technology efficiently.			Staff training \$250	Technical support \$500	\$750
Special Ed	improve the efficiency and effectiveness of instruction using Successmaker Enterprise, Nova Net and Kurzweil software programs.	<ul style="list-style-type: none"> • 6 Epson scanners \$125 ea \$750 • 2 LCD projectors \$2,000ea \$4,000 	<ul style="list-style-type: none"> • 10 Kurzweil licenses \$1,495 ea \$14,950 	Staff training \$1,040	Installation, Technical support & troubleshooting \$12,480	\$33,220
	communicate and instruct more effectively using the Internet as a resource.			Staff training \$1,040		\$1,040
	upgrade office technologies.	<ul style="list-style-type: none"> • 10 desktop computers \$1,300 ea \$13,000 • 3 laptop computers \$1,500 ea \$4,500 • 3 printers \$400 ea \$1,200 • 11 wireless access points \$60 ea \$660 	Microsoft Windows and Office included	Staff training \$1,000	Installation \$550	\$14,550
			Microsoft Windows and Office included	Staff training \$200	Installation \$150	\$4,850
					Installation \$150	\$1,350
					Installation \$1,100	\$1,760
	utilize Sungard Pentamation software efficiently.				Maintenance contract \$11,120	\$11,120
	utilize technology efficiently.			Staff training \$2,500	Technical support \$900	\$3,400

Technology Objectives 2008/2009

Division: Instructional Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Alt. Ed	improve student performance utilizing updated hardware and software for learning and instructional practice.	5 desktop computers \$1,300 ea \$6,500	Microsoft Windows and Office included	Staff training \$700	Installation \$250	\$7,450
	acquire wireless system study at Lincoln Academy and James Street Academy.				Conduct study \$5,000	\$5,000
	utilize student management program (Rediker Admin Plus) to incorporate Gradequick and Edline software.		Gradequick and Edline software \$5,000	Staff training \$800	Installation \$200	\$6,000
	provide maintenance contract for Rediker student management software.				Maintenance contract \$3,000	\$3,000
	provide ongoing staff development.			Staff training \$1,000		\$1,000
	incorporate technology as an integral part of each program of study to enhance teaching and learning.		Instructional software for Science, Mathematics, Social Studies, and English \$7,500	Staff training \$3,000	Installation \$1,000	\$11,500
	utilize technology efficiently.			Staff training \$1,500	Technical support \$800	\$2,300
RPE	use technology to effectively and efficiently support Regional Program for Excellence.	1 printer \$400			Installation \$50	\$450
	upgrade Office technologies with enhanced computer skills training.			Staff training \$250	Technical support \$400	\$650
Career & Tech	provide maintenance for Rediker Administrators Plus and Gradequick student management softwares.				Maintenance contract \$5,500	\$5,500

Technology Objectives 2008/2009

Division: Instructional Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Career & Tech (cont.)	improve student performance.	<ul style="list-style-type: none"> 1 HP 3700 11x17 printer for Ad-Des. \$800 	Included with hardware		Installation \$200	\$1,000
		<ul style="list-style-type: none"> 25 desktop computers for instruction \$1,300 ea \$32,500 	Microsoft Windows and Office included	Staff training \$400	Installation \$1,200	\$34,100
		<ul style="list-style-type: none"> 10 DVD's, printers, scanners \$500 ea \$5,000 	Included with hardware	Staff training \$150	Installation \$300	\$5,450
		<ul style="list-style-type: none"> 5 Digital Cameras \$300 ea \$1,500 				\$1,500
	improve student performance utilizing updated hardware and software for learning and instructional practice.	<ul style="list-style-type: none"> 2 - 52" LCD screen monitors \$3,500 ea \$7,000 2 - Elmos \$2,375 ea \$4,750 2 desktop computers \$1,300 ea \$2,600 	Included with hardware	Staff training \$150	Installation \$1,500	\$16,000
	utilize technology efficiently.			Staff training \$5,000	Technical support \$2,500	\$7,500

Technology Objectives 2008/2009

Division: Instructional Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
Career & Tech (cont.)	incorporate technology as an integral part of each program of study to enhance teaching and learning.		<ul style="list-style-type: none"> Global Positioning & Forest Management (Conservation Software) \$500 	Staff training \$500	Installation \$250	\$1,250
			<ul style="list-style-type: none"> Auto Sketch Software, Electronic & Power Quality Meters (Electricity & HVAC Software) 1,350 	Staff training \$500	Installation \$250	\$2,100
			<ul style="list-style-type: none"> CDX-Auto Tech Software \$5,600 	Staff training \$500	Installation \$250	\$6,350
			<ul style="list-style-type: none"> PhotoShop (Adv. & Design software)\$6,000 	Staff training \$500	Installation \$250	\$6,750
			<ul style="list-style-type: none"> 5 Nova Net Portals (GED) \$1,500 ea \$7,500 	Staff training \$500	Installation \$250	\$8,250
SABA and Tech Prep	use career software to help students make more informed career decisions.	1 desktop computer \$1,300	CHOICES Software \$1,000	Staff training \$400	Installation \$200	\$2,900
	utilize technology efficiently.			Staff training \$500	Technical support \$150	\$650
2008/2009 TOTALS		\$86,560	\$49,400	\$22,380	\$115,550	\$274,790

Technology Objectives 2008/2009

Division: Program and Professional Development

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware Purchases/Rentals	Software	Staff Development	Technical Support	Budget Amount
PPD	upgrade office technologies	<ul style="list-style-type: none"> • 4 desktop computers @\$1,300 \$5,200 • 1 scanner \$350 • 1 printer \$500 • Wireless integration into the conference room \$750 	Microsoft Windows and Office included <ul style="list-style-type: none"> • 2 Adobe Pagemaker 7.0 \$350 ea \$700 	Staff training \$250	Installation \$200	\$5,650
					Installation \$50	\$400
					Installation \$50	\$550
					Installation \$500	\$1,250
				Staff Training \$150	Installation \$100	\$950
	utilize technology efficiently.			Staff training \$3,000	Technical support \$1,000	\$4,000
Center State Teachers Center	utilize technology efficiently.			Staff training \$300	Technical support \$100	\$400
SETRC	utilize technology efficiently.			Staff training \$300	Technical support \$100	\$400
2008/2009 TOTALS		\$6,800	\$700	\$4,000	\$2,100	\$13,600

Technology Objectives 2009/2010

Division: Administrative Services

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware Purchases/Renewals	Software	Staff Development	Technical Support	Budget Amount
CBO	upgrade office technologies.	1 desktop computer \$1,300 1 laser printer \$1,500	Microsoft Windows and Office included	staff training \$100	installation \$50	\$1,450
	utilize technology efficiently.				installation \$250	\$1,750
				staff training \$500	technical support \$2,700	\$3,200
Business Office	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office included	staff training \$200	installation \$100	\$1,600
	utilize technology efficiently.			staff training \$500	technical support \$1,500	\$2,000
	utilize WinCap and Crystal Reports more efficiently.				technical support \$13,600	\$13,600
Human Resources	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office included	staff training \$725	installation \$50	\$2,075
	utilize technology efficiently.			staff training \$100	technical support \$1,500	\$1,600
O&M Safety	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office included	staff training \$100	installation \$50	\$1,450
	maintain cellular phone service.	rental of 28 cell phones \$7,728				\$7,728
	maintain pager service.	rental of 9 pagers \$3,024				\$3,024
	maintenance of security system.				technical support \$2,500	\$2,500
	utilize technology efficiently.			staff training \$1,200	technical support \$900	\$2,100
	2009-2010 TOTALS	\$17,452	\$0	\$3,425	\$23,200	\$44,077

Technology Objectives 2009/2010

Division: **Information & Technology Division**

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Distance Learning	maintain telecommunication linkages per the Oneida-Herkimer-Madison BOCES Distance Learning network. (Region Wide)			staff training \$3,000	telecommunication costs \$75,000	\$78,000
	utilize technology efficiently.			staff training \$600	technical support \$300	\$900
	expand capabilities of the Distance Learning network to include IP video conferencing. (Region Wide)	5 video endpoints \$19,870 ea \$99,350		staff training \$10,000	maintenance contract \$5,200	\$114,550
School Library System	expand access to electronic library resources.		Teachingbooks.net \$5,000			\$5,000
	utilize technology efficiently.			staff training \$400	technical support \$1,000	\$1,400
	facilitate cost effective meetings with BOCES and our districts.		MS Live Meeting \$500			\$500
	infuse technology into the curriculum	10 digital video cameras and bags \$370 ea \$3,700		5 user group trainings \$300		\$4,000
	increase office efficiency.	2 computers \$800 ea \$1,600	Microsoft Office included		installation \$120	\$1,720
Sub Teacher Calling Service	report absences and obtain a qualified substitute through automated Subfinder system.	system equipment \$1,800	software lease fee \$9,936	staff training \$300	maintenance support \$5,136	\$17,172
		2 desktop computers \$3,000ea \$6,000			installation \$1,000	\$7,000
	utilize technology efficiently.			staff training \$300	technical support \$1000	\$1,300
Printing Services	utilize programmable cutter.	1 programmable cutter \$25,000	included with hardware			\$25,000
	utilize technology efficiently.			staff training \$200	technical support \$400	\$600

Technology Objectives 2009/2010

Division: Information & Technology Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Tech Repair	purchase digital monitor to improve diagnostic capabilities.	digital monitor \$500	diagnostic software \$300			\$800
	utilize technology efficiently.			staff training \$300	technical support \$100	\$400
				staff training \$3,500		\$3,500
	utilize scanner to exchange information with vendors to expedite repairs.	scanner \$300				\$300
School Communications	upgrade office technologies.	4 desktop computers \$1,300 ea \$5,200	Microsoft Windows and Office included	staff training \$400	installation \$200	\$5,800
		1 digital camera \$1,000				\$1,000
		2 flatbed scanners \$1,100ea \$2,200	software to be included		installation \$300	\$2,500
	utilize technology efficiently.			staff training \$2,000	technical support \$600	\$2,600
Elem Science	utilize technology efficiently.			staff training \$300	technical support \$200	\$500
		1 desktop document folder \$500				\$500
Media Services	upgrade DVD & CD duplication services to teachers and students.	3 desktop computers \$1300 ea \$3,900	software upgrade \$5,000	staff training included	technical support \$8,500	\$17,400
	utilize technology efficiently.			staff training \$1,000	technical support \$500	\$1,500
	expand digital content for schools.	1 digital content server \$10,000			installation and technical support \$11,000	\$21,000
		1 encoding station \$1,000				\$1,000

Technology Objectives 2009/2010

Division: Information & Technology Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Telephone Interconnect	maintain telephone service for Oneida-Herkimer-Madison BOCES and component services. (Region Wide)				telecommunication costs \$609,110	\$609,110
	reduce costs for telephone service through competitive bidding. (Region Wide)				consultant \$10,000	\$10,000
Telecommunication Services	maintain Wide Area Network (WAN) connections. (Region Wide)				telecommunication costs \$295,000	\$295,000
	increase the Wide Area Network bandwidth capacity from 45 mbs (DS 3) to 1 gig Ethernet through competitive bidding.				consultant \$25,000	\$25,000
	expand capabilities of Wide Area Network to include video connection. (Region Wide)	4 access points \$600 ea \$2,400 4 powered switches \$2,600 ea \$10,400 network cabling \$15,000		staff training \$5,000	installation \$1,000 installation \$5,000 installation \$20,000	\$8,400 \$15,400 \$35,000

Technology Objectives 2009/2010

Division: Information & Technology Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Network Admin.	replace Exchange server.	1 server \$5,000	Microsoft Windows Server, Exchange Server \$5,000	staff training \$250	installation \$500	\$10,750
	acquire dedicated lab equipment for Brodock IT lab.	15 desktop computers \$1,300 ea \$19,500	Microsoft Windows & Office included		Installation \$500	\$20,000
	implement free/open source software in selected production environments.			staff training \$5,000	installation \$2,500	\$7,500
	limited testing for free/open source software in student environments.			staff training \$1,500	installation \$1,500	\$3,000
	high end technical support for new projects.				consultant service \$5,000	\$5,000
	provide support for 8600 IP phone system. (Region Wide)				maintenance contract \$11,000	\$11,000
	utilize technology efficiently with ongoing Novell Site License agreement.		site license fee \$2,500			\$2,500
	high end technical support for new projects.				consultant service \$5,000	\$5,000
	maintain video streaming software support. (Region Wide)				\$6,000	\$6,000
Portable Planetarium	provide support to school districts.	equipment upgrade \$1,000				\$1,000
	2009/2010 TOTALS	\$508,900	\$52,236	\$57,350	\$1,764,166	\$2,382,652

Technology Objectives 2009/2010

Division: Instructional Division

Objectives		To Accomplish:					
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount	
Instructional Services	upgrade office technologies	1 laptop computer \$1,500	Microsoft Windows and Office included	staff training \$450	installation \$50	\$2,000	
			2 Microsoft Windows and Office -\$250 ea \$500			installation \$100	\$600
Special Ed	improve the efficiency and effectiveness of instruction using Successmaker Enterprise, Nova Net and Kurzweil software programs.	6 Epson scanner \$125 ea \$750	10 Kurzweil licenses \$1,495 ea \$14,950	software training \$2,000 Special Education teacher .3 FTE \$14,476		\$750	
		2 LCD projectors \$2,000ea \$4,000					\$4,000
							\$16,950
						installation, technical support & troubleshooting \$12,480	\$14,476
	upgrade office technologies.	15 desktop computers 1,300 ea \$19,500	Microsoft Windows and Office included	staff training \$1,000	installation \$1,950	\$22,450	
		6 laptop computers \$1,500 ea \$9,000	Microsoft Windows and Office included	staff training \$1,000	installation \$780	\$10,780	
		8 printers \$400 ea \$3,200	Sentinal Security software \$10,900	staff training \$150	installation \$350	\$3,550	
		Sentinal Security digital video recorders and camera's \$110,500				\$121,550	
	utilize Sungard Pentamation software efficiently		student management dataset \$3,100	staff training \$1,200	maintenance contract \$13,660	\$17,960	
			PD reports for related service database \$4,800	staff training \$1,200	technical support \$900	\$6,900	

Technology Objectives 2009/2010

Division: Instructional Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Special Education cont.	utilize technology efficiently.		15 Adobe Acrobat 7.0 Professional licenses \$75.33 ea \$1,129.95	staff training \$2,500	technical support \$900	\$4,530
			Cleartrack 200 \$2,469	staff training \$2,500		\$5,869
			update Special Education website \$900		technical support \$900	\$900
Alt Ed	incorporate technology as an integral part of each program of study to enhance teaching and learning.		instructional software for Science, Mathematics, Social Studies, and English \$7,500	staff training \$3,000	installation \$1,000	\$11,500
	utilize student management program (Rediker Admin Plus) to incorporate Gradequick and Edline software.		Gradequick and Edline software \$5,000	staff training \$800	installation \$200	\$6,000
	provide maintenance contract for Rediker student management software.				maintenance contract \$3,000	\$3,000
	provide ongoing staff development.			staff training \$1,000		\$1,000
Career Tech	improve student performance by utilizing updated hardware for learning and instructional practice throughout all programs.	3 MAC computers \$4,116 ea \$12,348	software to be included	staff training \$200	installation \$400	\$12,948
		4 digital cameras \$263.25 ea \$1,053				\$1,053
		30 desktop computer \$800.74 ea \$24,022.20	Microsoft Windows and Office to be included		installation \$3,900	\$27,922
		3 DVD, Scanners \$516.67 ea \$1,550				\$1,650

Technology Objectives 2009/2010

Division: Instructional Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Career & Tech cont.	improve student performance by utilizing updated hardware for learning and instructional practice throughout all programs.	1 electronic training tablet for Adv.& Design \$1,595	software to be included		installation \$100	\$1,680
		1 wireless projector	software to be included		installation \$130	\$1,595
	incorporate software technology as an integral part of each program of study to enhance teaching and learning.		new software updates for following classes <ul style="list-style-type: none"> • Auto Body • Auto Technology • GED • Adv. & Design • Comp. Inf. Tech. \$25,000	staff training \$400	installation \$250	\$25,650
	utilize technology efficiently.	3 Axiom handheld \$399 ea \$1,197		staff training \$1,000		\$1,197
	provide maintenance for Rediker Administrators Plus and Gradequick student management softwares.				maintenance and support \$3,250	\$3,250
School-To-Work SABA & Tech Prep	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office software included	staff training \$200	installation \$50	\$1,550
	utilize technology efficiently.			staff training \$400	technical support \$600	\$1,000
	2009/2010 TOTALS	\$152,950	\$52,950	\$10,850	\$42,550	\$259,300

Technology Objectives 2009/2010

Division: Program and Professional Development

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
PPD	upgrade office technologies.	1 desktop computer \$1,300 ea	Microsoft Windows and Office included	staff training \$250	installation \$150	\$1,700
		2 monitors \$350 ea \$700				\$700
	utilize technology efficiently.			staff training \$400	technical support \$750	\$1,150
CTSC	utilize technology efficiently.			staff training \$200	technical support \$200	\$400
	incorporate technology to enhance teaching and learning experiences for district personnel.	1 SMARTboard \$1,000	software to be included		installation \$250	\$1,250
		2 Elmo units \$1,500 ea \$3,000			installation \$100	\$3,100
SETR C	utilize technology efficiently.			staff training \$100	technical support \$200	\$300
	incorporate technology to enhance teaching and learning experiences for district personnel.	1 laptop computer \$1,000	Microsoft Office and Windows included		installation \$130	\$1,130
2009/2010 TOTALS		\$7,000	\$0	\$950	\$1,780	\$9,730

Technology Objectives 2010/2011

Division: Administrative Services

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware	Software	Staff Development	Technical Support	Budget Amount
CBO	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$500	Technical support \$2,700	\$3,200
Business Office	upgrade office technologies.	1 network printer \$2000			Installation \$500	\$2,500
	utilize WinCap and Crystal Reports more efficiently.	1 WinCap server \$8,000	Software included		Installation & technical support \$16,600	\$24,600
	utilize technology efficiently.			Staff training \$500	Technical support \$1,500	\$2,000
Human Resources	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$750	Technical support \$800	\$1,550
O&M Safety	upgrade office technologies.	1 LCD Projector \$1400				\$1,400
	maintain cellular phone service.	Rental of 28 cell phones \$7,728				\$7,728
	maintain pager service.	Rental of 9 pagers \$3,042				\$3,024
	upgrade security system.				Technical support \$2,500	\$2,500
	upgrade office technologies.	1 desktop computer \$1300	Microsoft Windows & Office included	Staff training \$100	Installation \$50	\$1,450
	utilize technology efficiently.			Staff training \$1,200	Technical support \$900	\$2,100
2010-2011 TOTALS		\$26,052	\$0	\$3,250	\$25,650	\$54,952

Technology Objectives 2010/2011

Division: Information & Technology Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Distance Learning	maintain telecommunication linkages per the Oneida-Herkimer-Madison BOCES Distance Learning network. (Region Wide)			Staff training \$3,000	Telecommunication costs \$75,000	\$78,000
	continuation of ISDN connections.				Telecommunication costs \$2,500	\$2,500
	expand capabilities of the Distance Learning network to include IP video conferencing. (Region Wide)	5 video endpoints \$19,870 \$99,350		Staff training \$10,000	Maintenance contract \$5,200	\$114,550
	utilize technology efficiently.			Staff training \$600	Technical support \$300	\$900
School Library System	upgrade office technologies.	4 desktop computers \$1,300 ea \$5,200	Microsoft Windows and office included	Staff training \$250	Technical support \$200	\$5,650
	utilize technology efficiently.			Staff training \$400	Technical support \$150	\$550
Sub Teacher Calling Service	report absences and obtain a qualified substitute through automated Subfinder system.		Software lease fee \$9,936	Users training \$300	Technical support \$5,136	\$15,372
	utilize technology efficiently.			Staff training \$300	Technical support \$100	\$400
Printing Service	utilize table top folder	1 Table top folder \$8,000				\$8,000
Technical Repair	upgrade video projection equipment.	1 LCD Projector \$975				\$975
	utilize technology efficiently.			Staff training \$3600		\$3,600

Technology Objectives 2010/2011

Division: Information & Technology Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
School Communications	upgrade office technologies.	• 1 laptop computer \$1,800	Microsoft Windows and Office included		Installation \$50	\$1,850
		• 1 LCD projector \$2,000				\$2,000
		• 1 video camcorder \$2,000				\$2,000
		• 1 tripod \$40				\$40
			• 2 Adobe Premier editing software \$730 ea \$1,460			\$1,460
	utilize technology efficiently.			Staff training \$3,000	Tech. support \$200	\$3,200
Media Services	upgrade office technologies. expanded Digital Content for Schools. upgrade DVD & CD duplication service.	• 1 Laptop computer \$2,500	Software included	Staff training included	Installation \$50 Tek Data support included	\$2,550
		• 1 Video projector \$2,500				\$2,500
		• Digital Content Server \$2,000	Windows Media included			\$2,000
		• DVD & CD duplication service \$7,500	Software included			\$7,500
Elem Science	improve customer service by upgrading science kit booking system.	Booking program \$5,000	Included	Staff training included	Technical support included	\$5,000
	utilize wand scanner.				Technical support \$750	\$750

Technology Objectives 2010/2011

Division: Information & Technology Division

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware	Software	Staff Development	Technical Support	Budget Amount
Elem Science Center (cont.)	utilize office technologies.			Staff training \$300	Technical support \$200	\$500
	upgrade office technologies.	1 desktop computer \$1,300	Microsoft Windows and Office included	Staff training \$100	Installation \$50	\$1,450
Network Admin.	expanded facilities for IT staff for testing/development.	Building materials and renovations \$10,000			Technical support \$200	\$10,200
	replace Application Servers.	1 Server \$5,000	Microsoft licenses \$5,000	Staff training \$250	Technical support \$250	\$10,500
	complete free/open source software migration.			Staff training \$5,000	Technical support \$5,000	\$10,000
	upgrade Core Network Switch.	1 Switch \$50,000			Technical support \$500	\$50,500
Telephone Interconnect	expand the capabilities of the IP telephone system. (Region Wide)	<ul style="list-style-type: none"> • 4 ITG cards \$5,000 ea \$20,000 • 10 power switches \$2,600 ea \$26,000 • 1000 telephones \$397 ea \$397,000 • cabling \$20,000 	4 software upgrades \$6,000ea \$24,000	Staff training \$3,000	Installation \$2,000	\$49,000
					Installation \$5,000	\$31,000
				Staff training \$20,000	Installation \$15,000	\$432,000
					Installation \$20,000	\$40,000
	maintain telephone service for Oneida-Herkimer-Madison BOCES and component districts. (Region Wide)				Telecommunications costs \$609,110	\$609,110

Technology Objectives 2010/2011

Division: Information & Technology Division

	Objectives	To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Telecommunications Service	expand capabilities of Wide Area Network to include video connection. (Region Wide)	<ul style="list-style-type: none"> • 4 access points \$600 ea \$2,400 • 4 powered switches \$2,600 ea \$10,400 • network cabling \$15,000 		Staff training \$5,000	Installation \$5,000 Installation \$1,000 Installation \$5,000	\$7,400 \$16,400 \$20,000
	2010-2011 TOTALS	\$705,015	\$40,396	\$55,100	\$784,446	\$1,584,957

Technology Objectives 2010/2011

Division: Instructional Division

Dept.	Objectives Staff and/or students will be able to:	To Accomplish:				
		Hardware	Software	Staff Development	Technical Support	Budget Amount
Instr. Services	upgrade office technologies.	2 desktop computers \$1,300 ea \$2,600	Microsoft Windows and Office included	Staff training \$100	Installation \$100	\$2,800
	utilize office technologies.			Staff training \$100		\$100
Special Ed	improve the efficiency and effectiveness of instruction using Successmaker Enterprise, Nova Net and Kurzweil software programs.	<ul style="list-style-type: none"> • 6 Epson scanner \$125 ea \$750 • 2 LCD projectors \$2,000ea \$4,000 	<ul style="list-style-type: none"> • 10 Kurzweil licenses \$1,495 \$14,950 		Installation, technical support and trouble shooting \$12,480	\$750 \$4,000 \$27,430
	communicate and instruct more effectively using the Internet as a resource.			Staff training \$1,040		\$1,040
	upgrade office technologies.	<ul style="list-style-type: none"> • 15 desktop computers 1,300 ea \$19,500 • 3 laptop computers \$1,500 ea \$4,500 • 4 printers \$400 \$1,600 	Microsoft Windows and Office included Microsoft Windows and Office included	Staff training \$1,000 Staff training \$200	Installation \$750 Installation \$200 Installation \$350	\$21,250 \$4,900 \$1,950
	utilize Sungard Pentamation software efficiently.				Maintenance contract \$11,120	\$11,120
	utilize technology efficiently.			Staff training \$2,500	Technical support \$900	\$3,400
Alt. Ed	improve student performance utilizing updated hardware and software for learning and instructional practice.	5 desktop computers \$1,300 ea \$6,500	Microsoft Windows and Office included	Staff Development \$200	Installation \$250	\$6,950
	incorporate educational software packages for instructional use in science, mathematics, social studies and English language arts.		Instructional software for Science, Mathematics, Social Studies and English \$7,500	Staff training \$1,000	Installation \$550	\$9,050

Technology Objectives 2010/2011

Division: Instructional Division

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
Alt. Ed (cont.)	utilize technology efficiently.			Staff development \$1,000	Technical support \$1,000	\$2,000
	maintain service contract for Rediker student management software.				Maintenance contract \$3,000	\$3,000
RPE	use technology to effectively and efficiently support Regional Program for Excellence.			Staff training \$150	Technical support \$200	\$350
	utilize technology efficiently.			Staff training \$250	Technical support \$400	\$650
Career Tech	improve student performance by utilizing updated hardware and software for learning and instructional practice throughout all programs.	<ul style="list-style-type: none"> • 3 - 52" LCD Screens for instruction \$7,175 ea \$14,350 • 30 Laptops \$1,500 ea \$45,000 	Microsoft Windows and Office included		Installation \$750	\$15,100
	incorporate technology as an integral part of each program of study.		Update all software applications for programs and learning labs \$24,500		Installation \$500	\$25,000
	utilize technology efficiently.			Staff training \$1,000	Technical support \$1,000	\$2,000
School-To-Work SABA and Tech Prep	utilize office technologies efficiently.			Staff training \$400	Technical support \$600	\$1,000
2010/2011 TOTALS		\$98,800	\$46,950	\$8,940	\$34,650	\$189,340

Technology Objectives 2010/2011

Division: Program and Professional Development

Objectives		To Accomplish:				
Dept.	Staff and/or students will be able to:	Hardware	Software	Staff Development	Technical Support	Budget Amount
PPD	upgrade office technologies.	2 desktop computers \$1,300 ea \$2,600	Microsoft Windows and Office included	Staff training \$150	Installation \$100	\$2,850
	utilize technology efficiently.			Staff training \$400	Technical support \$750	\$1,150
CTSC	utilize technology efficiently.			Staff training \$200	Technical support \$200	\$400
SETRC	utilize technology efficiently.			Staff training \$100	Technical support \$200	\$300
	2010/2011 TOTALS	\$2,600	\$0	\$850	\$1,250	\$4,700

IMPLEMENTATION PROCESS

As the preceding *Technology Objectives* charts indicate, the instructional and non-instructional divisions of Oneida-Herkimer-Madison have a focused sequential plan for implementing a technology-supported learning environment for all members of the school and larger community. This plan is a working document. The plan will be reviewed each year by the various divisions and the BOCES Technology Committee to insure that any emerging technologies, instructional innovations, or program changes will be included in the plan. All technology acquired will adhere to the Mohawk Regional Information Center's *Regional Standards* for hardware, software and management (see appendix K, L & M).

SUPPORT/MAINTENANCE

The following technical personnel and support systems are available to implement, administer and maintain the Oneida-Herkimer-Madison BOCES Technology Plan.

The BOCES Technology Committee

The BOCES Technology Committee is responsible for managing the BOCES *2008-2011 Technology Plan*. Each member's role is to meet with teachers, administrators and staff in each of their respective departments to determine technology needs and ensure the successful implementation of technology in their building. As a team, the BOCES Technology Committee discusses ways to communicate concerns, makes recommendations about how technology is being used and develops plans for future applications.

Oneida-Herkimer-Madison BOCES' Technical Staff

◆ **Audio-Visual Equipment Repair Technician**

The *Audio-Visual Equipment Repair Technician* is responsible for providing major overhaul and preventative maintenance on the audio and video equipment of participating school districts and the Oneida-Herkimer-Madison BOCES.

◆ **Computer Technical Assistant**

The Computer Technical Assistant is responsible for the efficient functioning of stand alone and networked systems. The incumbent assists and trains staff who has access to internal and outside agency databases or networks.

◆ **Computer Training Specialist**

The *Computer Training Specialist* provides training on supported software packages for administrators and both instructional and support staff within all BOCES divisions and the component school districts. This person also provides assistance with database projects on an as-needed basis.

◆ **Media Services Coordinator**

Media Technology Services Coordinator and staff provide both curriculum library of resources and professional development opportunities for technology integration.

Media Library – core curriculum materials for Pre-K, K-12, Distance Learning and AP classes.

- Online catalog: provides 24/7 access for searching, booking and browsing of over 24,000 titles available in digital, analog and print media available to teachers and students.
- Streaming video titles: video clips, related media, websites and teacher resources for K-12 core curricula.
- Digital Sound: royalty-free music for both students and teachers to integrate into presentations, PowerPoint, lessons, school productions, video storytelling, etc.
- Customized digitized resources complement curricular needs and the NYS Learning Standards.
- EdVideo Online service facilitation of training, teacher and student accounts, lessons, quizzes and digital integration of resources.
- Premium Channel streaming through the Video Furnace network.

The extensive print library of over 100,000 books in multiple copies enhances and complements the digital resources available from the Media Library.

Professional development provided by Media Technology Services includes training in searching, browsing and booking from the online catalog; integration of digital video and digital sound into lessons, presentations, PowerPoint, SmartBoards, video storytelling; facilitation of the EdVideo Online service from the New York State Public Television stations.

◆ **Micro-Computer/Audio-Visual Repair Technician**

The *Micro-Computer/Audio-Visual Repair Technician* is responsible for testing, installing, repairing and maintaining a variety of microcomputer and peripheral equipment used in the Oneida-Herkimer-Madison BOCES and its component school districts.

◆ **Network Administrator I & II**

The *Network Administrators* coordinate network activities for each server owned and operated by the Oneida-Herkimer-Madison BOCES. The Network Administrator's functions as a primary contact for network users when hardware, network and Internet problems occur. The Network Administrators are also a primary source of information regarding new and emerging technologies.

◆ **School Library System Coordinator**

The School Library System Coordinator and staff provide four core support services to school libraries as well as professional development opportunities. The core services include:

1. Cooperative Collection Development – facilitates the purchase of materials to enhance the school library's collection

2. Extended Interlibrary Loan – provides broader access to resources for staff and students in the component districts. Upon request, SLS staff searches sources unavailable to schools for books and journals then facilitates the sending and receiving of those materials.
3. Regional Union Catalog – in collaboration with Madison-Oneida BOCES and Jefferson-Lewis BOCES, Oneida/Herkimer BOCES school libraries have a shared catalog of materials. The combined collections of 180 school libraries are available for searching and making requests through the regular interlibrary loan service. Oneida/Herkimer BOCES SLS staff maintains the records in the regional union catalog for our component school libraries.
4. On-line Database Services – school libraries purchase access to on-line database resources for their patrons. SLS staff facilitates the purchases and provides technical support in accessing their accounts.

The professional development provided by SLS includes: an annual library & technology conference; information literacy skills, collaboration between librarians and classroom teachers; research skills; guest authors; program development; and training in how to infuse technology into the classroom curriculum.

◆)Telecommunications Specialist

The *Telecommunication's Specialist* provides supervision of the installation, adjustment, maintenance and repair of a variety of online telecommunication equipment and related network needs. This person also assists districts in technology planning and integration.

Oneida-Herkimer-Madison BOCES' Technology Support Programs

◆ ***Distance Learning***

Distance Learning creates a fiber-optic telecommunication network with the capacity to link all component school districts, the BOCES complex, area colleges and Regional Networks outside of Oneida County. The network connects up to four sites at the same time, to form a virtual single electronic classroom with the ability to expose both students and teachers to a range of educational opportunities using the latest advances in educational technology. ISDN, video conferencing, ISDN, IP video conferencing and on-line programs provide additional distance learning opportunities. In the future, linkages will be established with regional networks in other states, and even other countries to enhance educational opportunities.

◆ ***Project Lead the Way***

Project Lead the Way is an innovative series of five technical courses for high school students. The courses focus on technology skills in the field of engineering. BOCES will be offering three of the courses on-site and coordinating teacher training for teachers in the component districts.

◆ ***Program and Professional Development***

The Program and Professional Development Division assists in the design and administration of "needs assessments" related to technology planning. The Division is also responsible for coordinating the delivery of staff development and training for the BOCES' component school districts.

◆ **Telecommunications**

The Telecommunications service provides network capabilities for both instructional and management programs offered by the Oneida-Herkimer-Madison BOCES through the leadership and coordination provided by the BOCES' professional staff. It also provides the telecommunication links necessary for direct instruction (*i.e.* distance learning, ISDN connections, IP video conferencing, satellite down linking and Internet access through the Regional Information Center). At the same time, the network establishes the necessary linkages for teleconferencing and Telephone InterConnect Service for the region. It also allows interfacing with public and private telecommunication providers such as telephone companies, cable TV companies, satellite service providers, regional computer centers, the State Education Department and other government or private agencies as needed.

◆ **Telephone InterConnect**

The BOCES coordinated Telephone InterConnect Services provides school districts with the ability to link telephone services through a "virtual" telephone network. As a result, schools have the ability to direct inward dial (DID) the Oneida-Herkimer-Madison BOCES and its counterparts in the service with either four or five digit dialing free of charge.

Mohawk Regional Information Center's Technical Staff

◆ **Technology Planning Specialist**

The *Technology Planning Specialist* provides technical knowledge and support needed to purchase and maintain Local and Wide Area Networks (LANs, WANs). This person in collaboration with district staff recommends hardware and software purchases compatible with a district's short and long range technology goals.

◆ **Telecommunications Specialist I**

The *Telecommunications Specialist I* provides supervision of the installation, adjustment, maintenance and repair of a variety of on-line telecommunication equipment and related network needs. This person also assists districts in technology planning and integration.

Mohawk Regional Information Center's Support Programs

◆ **Common Learning Objectives - Instruction of Resource Management**

Districts participating in this service collaboratively identify a common regional curricular problem. They focus on finding solutions and effective methods of technology integration to address Common Learning Objectives. They also develop teaching strategies and assess growth.

◆ **Model Schools**

The New York State Model Schools program enables school districts to define their path toward instructional technology integration. It accomplishes this mission by

facilitating planning and assessment, and offering staff and curriculum development as it pertains to technology integration, as an on-going component of systemic school reform to improve student achievement.

◆ **Network Support Services**

The Network Support Service is designed to provide support to the local school districts for Local Area Network LANs and the Wide Area Network WANs. Both PC and Apple platforms are supported for instructional and administrative purposes. This service is tailored to meet the needs of the local requesting school district and is dependent upon the level of installed-base in the schools. The Mohawk Regional Information Center's (RIC) staff provides services including shared technicians.

STAFF DEVELOPMENT

The implementation of the infrastructure (including the purchase of hardware, software and networking) is only the first step in the technology vision. This plan is intended to put the necessary staff development opportunities in place in order to insure that the technology resources and capabilities are used to the maximum advantage for students and teachers. In order to make maximum use of technology, the following opportunities will be provided:

- on-going training to learn new software, electronic access, and multimedia applications.
- opportunity for staff to refine their skills in the use of technology tools and applications within and across the curriculum.
- necessary courses and training time for staff.
- necessary time and support to experiment and explore new ways to improve teaching and learning through technology.
- appropriate staff development in the form of on-site and off-site training (including BOCES courses, non-BOCES courses and other provider training).

There is a tremendous need for staff training to understand the learning potential of different technologies, as well as for leadership support to help staff identify and use the technologies that will best serve each individual student's and employee's needs.

Staff development is a critical component of the technology plan. The Oneida-Herkimer-Madison BOCES is committed to on-going training for all staff to ensure effective use of technology tools, and to help teachers to focus on integration into the curriculum. Staff has already been exposed to a wide range of courses and hands on training to address basic computer skills, as well as tool software.

Every effort will be made to develop student and staff proficiencies in the use of the keyboard, mouse, files and networking. In addition, all students and staff will have opportunities to receive training in basic tool applications such as word processing, database development, e-mail, and the World Wide Web. Beyond this training, on-going training will be provided to instructional staff in the integration of technology into their curricular areas. The major focus for training will be to link technology with the New York State Learning Standards and Frameworks. The model to be used involves in-house staff, as well as, Regional Information Center staff working with exemplary technology-users at different grade levels and subject areas, to provide on-going development of technology-based lessons and large/small group instruction in how technology tools, applications and resources can be used to foster student learning.

FUNDING AVAILABILITY

The majority of funding for the implementation and integration of technology at the Oneida-Herkimer-Madison BOCES is derived from program participation by component districts. Each Division administrator is responsible for developing a separate budget for each of the Division's program and services. These budgets, which include technology acquisition and maintenance, are reviewed and approved by a Superintendent's Advisory Committee, the District Superintendent and the BOCES Cooperative Board. Program budgets are developed on an annual basis and each Division Director is responsible for monitoring the budget's expenditures and revenues throughout the fiscal year.

Supplemental Funding

Oneida-Herkimer-Madison BOCES and the participating districts require financial assistance due to:

- the limited ability to generate local income because of the small tax base;
- significant state budget cuts to education because of the sluggish economy,
- corporate downsizing
- the lasting financial effect of 9/11; and
- the more ambitious academic standards and assessment contained in *New York State Learning Standards* and the *Federal No Child Left Behind Act*.

To assist schools in overcoming these financial constraints there are a number of other sources for obtaining additional funding for technology infrastructure, implementation and integration. The following sources will be used, where applicable, to assist the Oneida-Herkimer-Madison BOCES in fulfilling the goals and objectives of the *2008-2011 Technology Plan*.

◆ **Goals 2000 Grant**

The Goals 2000 grant supports technology integration into the academic areas. The grant has funded staff development for teachers in component districts in the use of electronic grade books, *etc.*

◆ **Chinese Language and Culture Initiative Grant**

The Chinese Language and Culture Initiative (CLACI) supports projects that establish, improve, or expand foreign language learning. Through the use of distance learning, videoconferencing, and teacher training the Foreign Language Assistance Program project is designed to empower teachers with the capability to enhance innovative learning in the Mandarin Chinese language and culture.

The project consists of two main facets:

- building of cultural awareness, opportunities for international collaborations, and increased interest at the K-5 level; and
- standards-based instruction in Mandarin Chinese at the 6-12 level, beginning in grade 6.

CLACI is funded by the U.S. Department of Education Foreign Language Assistance Program, PR/Award number T239B060044. The three-year project (9/2006 – 9/2009) is scheduled to receive \$676,327 with a local match of \$2,307,316.

◆ **Title III Technology Literacy Challenge Grant**

Under the terms of the grant, teachers receive training in writing learning units and learning experiences that make use of technology as a tool to improve instruction. The learning units and experiences dovetail with the *New York State Learning Standards*, which are designated to raise expectations for all students. In keeping with the grant's technology focus, exemplar learning units will be made available via the Internet, giving rural and resource-strapped school districts access to these best practice, or exemplary, teaching materials. Data will be collected and shared via Internet {HYPERLINK <http://www.title3.org>} www.title3.org to support best practices for helping all students achieve higher standards.

◆ **USDA Grant**

Modern telecommunications technology meets the unique educational needs of the rural region by bringing services to a population that is isolated from more urban areas. Rural areas such as the Mohawk Valley, are isolated, less wealthy, and have few cultural opportunities such as the arts, music, drama, or even meeting places.

Through the auspices of the United States Office Department of Agriculture (USDA) whose mission is to “deliver programs in a way that will support increasing economic opportunity and improve the quality of life of rural residents”. The Oneida-Herkimer-Madison BOCES will apply for those grants which will assist rural schools achieve their technology goals. Further information on rural programs is available at a local USDA Rural Development office or by visiting USDA's web site at www.rurdev.usda.gov.

◆ **E-rate**

The Telecommunication Act of 1996 established requirements to provide discounted telecommunication services to K-12 schools and libraries. The Federal Universal Service Telecommunication Discount Program provides discount pricing to schools and libraries so they can acquire advanced telecommunication services which are fundamental to the development of a technology rich infrastructure to enable learning, teaching and information access. This funding source will be used to provide discount telecommunication rates for those schools utilizing the Oneida-Herkimer-Madison BOCES' telecommunications services (*i.e.*, cell phones, Distance Learning, pagers, Telephone InterConnect and Wide Area Network [WAN].)

EVALUATION

Both formative and summative evaluation components for the Oneida-Herkimer-Madison BOCES Technology Plan have been developed.

The formative component includes examining the timeliness and completeness of implementation of all technology objectives. For this component, the completion of each objective targeted for that year will be reviewed and analyzed. The students and staff will be surveyed each year in terms of their skill levels and use of technology to identify areas where improvement is needed.

For the summative evaluation, the impact technology has had on teaching and learning will be documented. The summative evaluation design is intended to answer three questions:

- ***How has technology improved student performance?***
- ***How has the implementation of technology at the BOCES improved and/or changed the level of learning for students?***
- ***How has technology increased the efficiency and effectiveness of BOCES' programs?***

Baseline information about student and teacher use of technology across all grade levels and subject areas will be collected. This information will include the following: levels of technology access in the school, levels of technology use, perceptions of staff/students toward technology, perceptions of the impact of technology on student learning, student achievement data including local and state test data. A critical measure will be student portfolios and the new Statewide Regents exams that are linked to the Standards and Frameworks.

The evaluation design will collect a variety of formative or process data to answer the implementation questions. These implementation questions include identifying what was accomplished and when.

Summative or impact evaluation will use a variety of outcome measures. These measures include:

- assess student skills with technology,
- student activity on the system,
- student time on the system,
- student results within the CCC software,
- surveys of teachers, students and staff,
- student Employment profiles, and
- the BOCES Report Card.

The BOCES Technology Committee will have an integral role in evaluating and monitoring the effectiveness of the *2008-2011 BOCES Technology Plan*. This evaluation will be achieved by an annual review of each Division's *Technology Objectives*. Each objective will be evaluated for its targeted outcome and the degree to which the objective was accomplished. A summation report of the Plan's evaluation will be presented to the BOCES' Cooperative Board for its review and approval.

The BOCES Technology Committee will meet on a regular basis throughout the school year, to provide feedback on the implementation of the plan and make recommendations for its improvement.