Keshequa

Central School

"Excellence in Rural Education"

Technology

Implementation Plan

2004 – 2008

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INTRODUCTION

This Plan is a step in our journey into the 21st century. As technology changes, so will the needs of our students and the need to keep our curriculum current and alive. Our hope is that Keshequa will be a District

> ***whose facilities are*** well equipped, easily accessible to students, faculty, administration & the community, and housed with current technology;

> ***whose staff is*** well versed, literate, and excited about technology;

> ***whose students are*** all achieving the district goals of being continuous learners, responsible citizens, problem solvers, cooperative individuals, and effective communicators, and who have the technical competencies to compete in both the workplace and the world at large; and

> ***whose reputation is*** that of a motivating, innovative, disciplined institution that provides only the best to its students and community.

PLANNING PARTICIPANTS

In an effort to provide as broad a representation as possible, each school year the different Technology Teams will seek volunteer representation from the areas indicated.

District Technology Team
    Superintendent
    Technology Coordinators
    Elementary Team Representative
    Middle School Team Representative
    High School Team Representative
    Community Representative(s)

Dalton Technology Team
    Dalton Technology Coordinator
    Dalton Principal
    Curriculum Coordinator
    Elementary Librarian
    Special Area Teachers Rep
    Kindergarten Rep
    1st Grade Rep
    2nd Grade Rep
    3rd Grade Rep
    4th Grade Rep
    5th Grade Rep
    Special Education Rep

Middle School Technology Team
    Nunda Technology Coordinator
    Middle School Principal
    Curriculum Coordinator
    Guidance Dept Rep
    Special Education Rep
    Foreign Language Rep
    Fine Arts Rep
    Grade 6 Rep
    Grade 7 Rep
    Grade 8 Rep
    Middle School Librarian
    Athletic Dept Rep

High School Technology Team
    Nunda Technology Coordinator
    High School Principal
    Curriculum Coordinator
    High School Librarian
    Special Education Rep
    Fine Arts Rep
    Math Dept Rep
    English Dept Rep
    Science Rep
    Social Studies Rep
    Business Dept Rep
    Guidance Dept Rep

MISSION STATEMENT

The purpose of this Implementation Plan is to describe the role and use of technology in achieving the District educational goals established for students as outlined in the District Strategic Plan (*a copy of which is attached hereto as Appendix A*), as well as the District technological goals. Students are to become:

1. ***Continuous Learners*** - will demonstrate steady growth on standardized tests as compared to other students in schools across the state, nation and BOCES, teacher assessments, alternative assessments and/or the achievement of personal and vocational goals;

2. ***Problem Solvers*** - will use their experiences, knowledge and skills to solve real life problems in a variety of situations;

3. ***Cooperative Individuals*** - will be able to work effectively with others of diverse backgrounds in a variety of learning/working situations to achieve common goals; and

4. ***Effective Communicators*** - will express their knowledge, ideas, needs, feelings and creativity through listening, speaking, writing, reading, technology, and the arts.

**We believe that using computers and technology
to assist in meeting these goals
will create adults who will be
productive members of their community, their workplace,
and of society in the 21st century.**

TECHNOLOGY BENEFITS TO

STUDENTS & TEACHERS

Students access to and mastery of different technologies will:

◆ enable them to become active, independent learners
◆ provide "student-centered", individualized learning situations
◆ heighten motivation
◆ prepare them for the future job market
◆ afford them an appreciation of diversity
◆ widen global learning opportunities
◆ increase their productivity
◆ give them access to more information

Teachers access to and mastery of different technologies will:

◆ provide them with access to information on demand
◆ increase their productivity and efficiency
◆ allow them to become part of a global community sharing ideas and data
◆ give them more direct contact with peers in their content area
◆ afford them individualized instruction
◆ allow them to be more comfortable and familiar with current and developing technology

TECHNOLOGY HISTORY

"In the beginning..." moneys from numerous outside sources and the district were used to purchase on an as-needed-basis various brands, models and types of computers, software and peripherals. As the years progressed, so did our acquisition of equipment. Following is a brief description of how we came to have and use our current equipment:

During the 1980's:

Throughout this time, computers, printers and various software titles were purchased.

The first District Computer Committee was formally organized in 1984 under the direction of Superintendent Helena Squicciarini. Its members included: Dalton Group: Vaughn Estep, Marie Scarrot, Kate Alonzo, Sally Hall, Laurie Shutt and Judy Glaser Nunda Group: Gary Ayers, Marcia Ayers, Ron Biondolillo, Karen Carregin, Anne Cook, Tom Cook, Linda Davis, Dick DeMay, Frank Estep, Howard Jacobs, Jack Morgan, Elin Raimondi, Kathy Shultz and George Wildrick. These Committees dealt with such issues as placement of computers, hardware and software acquisition, and teacher training. Reacting to changing technology and obvious needs, the Computer Committee would make recommendations to the Administration.

In the Dalton Building, these computers were utilized as stand alone workstations. In 1989 an Apple IIgs computer lab was established and formalized instruction in keyboarding for third graders began.

In the Nunda Building, these computers were utilized to design a Business/Keyboarding Lab and an Apple IIe & IIgs Computer Lab. This Apple Lab was originally housed in the library, but was later moved to its own location with a full-time aide.

1993-1994 School Year:

Formalized future planning began to take place under Superintendents Barry Schoenholz and Bren Price. The first District Technology Plan was developed (*a copy of which is attached hereto as Appendix B*).

Under this plan the Dalton building would change from an Apple/MAC platform to the DOS/IBM platform. In the Nunda building, the Business Lab should be updated to house more current technology. Twenty (20) Hewlett Packard-IBM clone machines were received through a grant and networked together in order to share 4 printers (hereinafter referred to as the "Business Lab").

ADMINISTRATIVE LAN:

     In Nunda an Administrative server and host were purchased with seven (7) workstations networked to it, with six (6) printers.

     In Dalton two(2) workstations with two(2) printers could remotely dial-in to this Administrative LAN over a 14.4 modem.

1994-1995 School Year:

During the school year two additional LANs were established in the District. These Instructional LANs were established under the Library Automation CoSer through Wayne-Finger Lakes Genesee Valley BOCES and installed in each building *(detailed in Appendix C)*.

INSTRUCTIONAL LAN:

     In Dalton an instructional server was purchased with fourteen (14) Hewlett Packard-IBM clone workstations networked, sharing three (3) printers. Eight workstations were housed in the Computer Lab, five workstations were housed in the Library and the remaining workstation was used as the circulation desk for the Library.

     In Nunda an instructional server was purchased with fourteen (14) Hewlett Packard-IBM clone workstations networked, sharing three (3) printers. Eight workstations were housed in the Apple Computer Lab, five workstations were housed in the Library and the remaining workstation was used as the circulation desk for the Library.

     During this same time various computers were purchased by the District for specific uses, including:

     In Nunda:
- An IBM PS/1 was purchased by the Computer Committee.
- A computer from the Business Lab was donated to an Earth Science class. A modem and software were purchased to enable the teacher to have access to current weather satellite information.
- The BETA project was begun with the purchase of two PowerMac computers and various software packages and peripherals.
  (see Appendix D for details)
- For the development of our yearbook, a computer, software and printer were given to the school by the vendor.

     In the spring of 1995 the Nunda Computer Committee made recommendations to Superintendent Price with regard to a "High School Computer Plan" (*a copy of those recommendations are attached hereto as Appendix E*), with the number one recommendation being that the Computer Committee carry out Phase II of the 1993-1994 District Technology Plan.

ADMINISTRATIVE LAN:
>
> Three (3) additional workstations and printers were purchased for connection to the LAN for the Superintendent, his Secretary and the Elementary Principal.

1995-1996 School Year:

With the increase in the amount of equipment the District was purchasing, and in an effort to insure the staff's understanding and use of this equipment, the part-time position of District Computer Trainer was established. To establish a "starting point" for staff training a Computer Knowledge Survey was distributed to each building staff. (*a copy of the survey and its results are attached hereto as Appendix F*).

INSTRUCTIONAL LAN:
>
> In Dalton, the server underwent a hard drive expansion and twenty-two (22) more workstations were networked, with twelve being housed in the Computer Lab, two being placed in the training area (Mr. Warren's Room) and one in each of the fifth and sixth grade classrooms. The Apple computers previously housed in the Lab were reallocated to various classrooms.
>
> In Nunda, the server underwent a hard drive expansion and twenty-two (22) more workstations were networked for placement in the Computer Lab (hereinafter referred to as the "IBM Lab") and the Business Lab was connected to increase the size of the Local Area Network (LAN). The Apple computers previously housed in the Lab were reallocated to various classrooms.
>
> Additionally, a district license was purchased for WinGuard v2.3 and a LAN license for GIS v17 for Nunda.
>
> Specific recommendations for upgrades to the current systems were also submitted and Board approved *(a copy of those upgrade recommendations are attached hereto as Appendix G)*.

ADMINISTRATIVE LAN:
>
> The server underwent a RAM upgrade and two additional workstations were added for the Business Manager and the Account Clerk.
>
> Additionally, a 2-user license for MSOffice Pro v4.3 was purchased for the Business Manager and the Account Clerk.

1996-1997 School Year:

During the school year the Computer Trainer position was upgraded to the full-time district position of Coordinator of Computer Services and the position of Computer Lab Trainer/Technician was also created and filled. The Technology Committee was then bestowed with the task of developing a comprehensive Technology Implementation Plan for all future technology purchases. Information for this plan was gathered in a variety of ways, including surveys which were distributed in an effort to obtain input as to the direction this plan should take, as well as information as to the current uses of technology within the classrooms. (*A copy of those use surveys are attached hereto as Appendix H*)

INSTRUCTIONAL LAN:

> In Dalton, five (5) additional workstations were purchased and placed in the Computer Lab; MSWorks v3.0 was selected as the software standard with the purchase of a 40-user license; various machines were upgraded; access to the Internet was made available to all teachers through WYCOL on a single upgraded PC; and a data projector was purchased and installed in the Computer Lab. (*An inventory and mapping of all then existing hardware is attached hereto as Appendix I*)

> In Nunda, one (1) workstation was added to the network (replacement for a workstation given to the Administrative network for the Director of Food Services); the Novell and ICLAS licenses were increased to 100-users; various machines were upgraded; MSWorks v3.0 53-user license for the LAN; MSOffice Pro v4.3 26- user license for the Computer Lab; a single classroom connection to the LAN was established (Rm 213) and access to the internet was made available to all teachers through WYCOL on a single upgraded PC. (*An inventory and mapping of all then existing hardware is attached hereto as Appendix I*)

> Additionally, anti-virus protection was initiated with InnocuLAN v4.0 server and InnocuLAN v4.1 workstation.

ADMINISTRATIVE LAN:

> The server was replaced and the LAN was increased by three (3) workstations (Director of Food Services, Payroll Clerk and Secretary to CSE Chairman) and three (3) printer. A cross connection to the Instructional LAN was also made.

> Additionally, all accounting procedures were begun in-house with the purchase of CP-Accounts Payable, Budget and Fixed Assets modules; anti-virus protection was initiated with InnocuLAN v4.0 server and InnocuLAN v4.1 workstation; and the MSOffice Pro license was increased to 4-users.

1997-1998 School Year:

This was a very exciting year in the District for instructional technology. During this year the District initiated a WFL-GV BOCES pilot with the installation of the

Compaq/Dynacom Multimedia Distribution System. A headend room with all source equipment and a twelve (12) classroom Fiber WindowsNT connection was purchased, wired and installed in both Dalton and Nunda. (*An inventory and mapping of all pilot hardware is attached hereto as Appendix J*)

INSTRUCTIONAL LAN:
> In Dalton, a flatbed scanner and color printer was purchased and installed in the Library. Internet access continued at the single access point.
>
> In Nunda, in an effort to increase the capacity of the Business Lab, all computers underwent a RAM upgrade. Additionally, a digital camera and a flatbed scanner were also purchased and installed in the IBM Lab. The LAKENet connection was made and internet access was made available from all workstations on the Instructional LAN. We also saw an upgrade to GIS v3.0 for Windows for the LAN.
>
> Additionally, "The Chronicle" (the District newsletter) was written by all district departments, produced by BETA and printed via DocuShare.

ADMINISTRATIVE LAN:
> The LAN was increased by three (3) workstations for the Superintendent, Business Manager and Director of Transportation; the Athletic Director inherited a workstation; and all existing LAN workstations were upgraded with additional RAM, WIN95 and MSOffice Pro v.4.3 licensing. The LAKENet connection was made and internet access was made available from all workstations on the Instructional LAN.
>
> Additionally, the CP-Payroll Module was implemented, as well as the NutriKids Analysis program for our Food Services Department.

1998-1999 School Year:

With the previous years multimedia pilot installation, the majority of the 1998-1999 school year was devoted to training, staff development and "debugging" of the system. Additionally, the district began planning a $27million capital project. Technology upgrades will be a large part of this project. (*a complete copy of the Technology Educational Plan for this capital project is attached hereto as Appendix K)*

1999-2000 School Year:

This year saw the beginning of our construction and capital project implementation. Due to the vast amount of physical construction needed, technology implementation outside of the project was temporarily halted.

<u>2000-2001 School Year:</u>

This year saw the continuation of the physical construction and implementation of the technology plan. All funded aspects of Division 17 of the capital project were installed, tested and full use began on a case-by-case basis.

INSTRUCTIONAL LAN:
    In Dalton, multimedia access points were furnished in all instructional areas, the computer lab was also fully equipped and all headend equipment was installed. (*complete As-Builts as attached hereto as <u>Appendix L</u>*)

    In Nunda multimedia access points were furnished in all instructional areas, the middle school computer lab was also fully equipped and all headend equipment was installed. (*complete As-Builts as attached hereto as <u>Appendix L</u>*)

ADMINISTRATIVE LAN:
    The business office upgraded to Finance Manager 2000 and all required workstation upgrades took place as well.

<u>2001-2002 School Year:</u>

INSTRUCTIONAL LAN: :
    With the technology construction phase of the capital project finally completed, the majority of this school year was spent on staff development.

    <u>Topics Included:</u>
    - Communication Via Email
    - New Phone System with Voice Mail Capabilities
    - Multimedia Functionality
    - Network Utilization (home directories & common folders)
    - Teaching With Server Applications

ADMINISTRATIVE LAN:
    This school year saw the migration from Schoolmaster for DOS to Schoolmaster for windows. Various hardware purchases took place in order to accomplish this, including the purchase of a new NT 4.0 Server.

    We also put into operation various DocuCenters. These fast-speed copier/scanner/faxing devices were networked to with office personnel users, while others were "walk-up" machines.

<u>2002-2003 School Year:</u>

With budget constraints being extremely tight this year, there was very little available for new technology purchases. This year we did see however, a change at our Dalton cafeteria facility with the installation of the Horizon Fastlane Point of Sale System.

This was also the first full-year of our website presence. Our website consists of pages for District Information, Dalton Elementary Information, Middle School Information and High School Information. (*a copy of the Web Site Board Policy is attached hereto as* *Appendix M*).

INSTRUCTIONAL LAN:
> The only additional hardware purchases for this school year were various printing scenarios.

ADMINISTRATIVE LAN:
> The only additional hardware purchases for this school year were the replacement of office personnel workstations.

2004 - 2008 School Year Outlooks:

These will also be exciting years for District technology. The main focus will be taking a look at how well our capital project was completed, whether or not it has fulfilled our instructional needs.

- Capital Project Review & Development of a Maintenance Plan;

- Increase information available on the district's web site;

- With all students and teachers working toward mastery of our new computer network, grade level and/or departmental technology rubrics need to be created for administrators, teachers, staff and students.

SECURITY

The security of all our systems must be the top priority and maintained at all times. Since time and funds are limited it is critical to determine what the security risks are, develop preventive measures and examine potential costs of a violation. All three areas of security will be governed by the District's Acceptable Use Policy *(a copy of which is attached hereto as Appendix N)*. Technology security issues can be broken down into four categories:

1. Physical Security;
2. Network Security;
3. Data Security; and
4. Internet Security

Physical Security

This area deals with keeping our hardware safe from vandalism and theft. Most problems in this area are the same as those of any valuable, portable equipment owned by the District.

MEANS: Careful inventory and control procedures for the equipment are essential.

Network Security

This area deals with keeping our network scheme safe, accurate and virus free. It must be understood by all users of our system that the use of our system is a **privilege** and **not a right**. The safety of our networks greatly depends on the integrity of its users and those who disregard others safety will be dealt with.

MEANS: InnocuLan Anti-Virus is the standard and strict adherence to the Acceptable Use Policy will be enforced.

Data Security

This area deals with keeping software and user files secure from unauthorized access and modification. When students are using any workstations with access to confidential information (such as grades, evaluations, test or the Internet), it is imperative that they do so under supervised and monitored conditions.

MEANS: An accurate backup system must be maintained in the event of a security breach.

Internet Security

This area deals with the security of our internet access. Information exchanges with unknown entities is prohibited and access to site with little or no educational value are screened.

MEANS: All stations with a connection to the Internet via LakeNet will be routed through the Bess Proxy Server for filtering.

KESHEQUA

Central School

KESHEQUA

ELEMENTARY SCHOOL

Technology Implementation Plan

2004 - 2008

CURRENT SOFTWARE TITLES

Following is a list of the most widely used software titles both on our network and on stand alone machines:

1st Letter Fun	Online Public Access Catalog (OPAC)
Accelerated Reader	Paint with Words
Bailey's Book House	Path Tactics
Cartopedia CD-ROM	Phonics Prime Time - Blends & Digraphs
Clock Works	Phonics Prime Time - Final Consonants
Coin Critters	Phonics Prime Time - Initial Consonants
Contraction Action	Preschool Parade
Early Addition	Prime Time - Vowels
Encarta CD-ROM	Reader Rabbit 1
Explorapedia CD-ROM	Reader Rabbit 2
Fun from A to Z	Reader Rabbit - Ready for Letters
Grammar Gobbler	Sammy's Science House
History of the World CD-ROM	Space Subtractions
How the Body Works CD-ROM	Speedway Math
I Spy	Take A Chance
Inspiration	Timeliner
Jumpstart Kindergarten CD-ROM	Type for Fun
Jumpstart First Grade CD-ROM	Type to Learn
Jumpstart Second Grade CD-ROM	Type to Learn Assessment
Kid Works2	US Atlas CD-ROM
Math Rabbit	Various interactive storybooks
Major League Math	Wizard of Words
Millie's Math House	Word Munchers
MS FrontPage	Words at Work Prefix Power
MS Office 2000 Pro	World Atlas CD-ROM
MS Publisher	World of Nature CD-ROM
MS Works	World of Science CD-ROM
Number Munchers	Worksheet Magic
Ocean Explorers CD-ROMS	Zoo Explorers CD-ROM

DALTON HARDWARE INVENTORY
(AS OF SEPTEMBER, 2003)

UserName	Computer	Printer	UserName	Computer	Printer
PK	Pilot - Compaq Presario		Lab	SW	
Spec Ed	Project CQ PIII, 10Gig, 128MB		Lab	SW	
K	Project CQ PIII, 10Gig, 128MB		Lab	SW	
K	Project CQ PIII, 10Gig, 128MB		Lab	SW	lexmark
K	Project CQ PIII, 10Gig, 128MB		Lab	SW	
K	Project CQ PIII, 10Gig, 128MB	LJ 1200	Lab	SW	
Case Worker	HP Vectra VL400	LJ 1200	Lab	SW	
Counselor	HP Vectra VL400	LJ 1200	Lab	SW	
Secretary	Compaq Evo D510 SFF	4100n	Lab	SW	
Secretary	Compaq Evo D510 SFF	LJ 1200	Lab	SW	LJ 6p
Principal	Project CQ PIII, 10Gig, 128MB		Lab	SW	
Principal	Compaq Armada 1700 Laptop		Lab	SW	
Title I	Pilot - Compaq Presario	DJ 660c	Lab	SW	
Art	Project CQ PIII, 10Gig, 128MB		Lab	SW	
Title I	Compaq Evo D510 SFF	LJ 1200	Lab	SW	LJ 6p
Title I		DJ 692c	Lab	SW	
Nurse	HP Vectra VL400	LJ 1200	Lab	SW	
Vocal Music	Pilot - Compaq Presario		Lab	SW	
Ins. Music	Mac		Speech Center	Sp Ed	lexmark
ECAFE2	Compaq Evo D510 SFF	LJ 1200	Spec Ed	Project CQ PIII, 10Gig, 128MB	DJ 720
ELEMCAFE3	Compaq Evo D510 SFF		Vol Ctr	Pilot - Compaq Presario	
ELEMCAFE1	Compaq Evo D510 SFF		OT/PT	---	
PE-Girls	Pilot - Compaq Presario	personal	Psychologist	Pilot - Compaq Presario	
PE-Boys	---	--------	Techs	Pilot - Compaq Presario	
Math	Pilot - Compaq Presario		Techs	Project CQ PIII, 10Gig, 128MB	
Librarian	Project CQ PIII, 10Gig, 128MB		Copy Room		
Library	SW	LJ 1200	Grade 2	Project CQ PIII, 10Gig, 128MB	
Library	SW		Grade 2	HP VL2/ 486/33sx,210HD,4mb RAM	
Library	SW		Grade 2	Project CQ PIII, 10Gig, 128MB	DJ 660c
Library	SW		Grade 2	HP VectraMultimedia,CDRom4mbRAM	
Library	SW		Title I	Pilot - Compaq Presario	
Computer Lab	Project CQ PIII, 10Gig, 128MB		Title I	Pilot - Compaq Presario	
Computer Lab	HP VL4 CD-Rom		Grade 2	Project CQ PIII, 10Gig, 128MB	
Computer Lab	Compaq CD-RW		Grade 2	Project CQ PIII, 10Gig, 128MB	LJ 1200
LT001-97	Compaq LTE 5300		Grade 3	Project CQ PIII, 10Gig, 128MB	DJ 692c
LT005-98 / D#1	Compaq Armada 1573 Laptop		Grade 3	Project CQ PIII, 10Gig, 128MB	DJ 720c
LT006-98 / D#2	Compaq Armada 1573 Laptop		Grade 1	Project CQ PIII, 10Gig, 128MB	DJ 692c
Lab	SW		Grade 1	HP VectraMultimedia,CDRom4mbRAM	
Lab	SW		Grade 1	Project CQ PIII, 10Gig, 128MB	
Lab	SW		Grade 4	Project CQ PIII, 10Gig, 128MB	
Lab	SW		Grade 4	Project CQ PIII, 10Gig, 128MB	LJ 1200
Lab	SW	lexmark	Grade 4	Project CQ PIII, 10Gig, 128MB	
Lab	SW		Grade 4	Project CQ PIII, 10Gig, 128MB	DJ 720c
Lab	SW		Grade 3	Project CQ PIII, 10Gig, 128MB	DJ 692c

Grade 3	HP VectraMultimedia,CDRom4mbRAM		Head End	Compaq Presario (School News)
Grade 3	Project CQ PIII, 10Gig, 128MB	DJ 692c	Head End	Dalton CD Tower 1
Grade 1	Project CQ PIII, 10Gig, 128MB		Head End	Dalton CD Tower 2
Grade 1	Project CQ PIII, 10Gig, 128MB	LJ 1200	Head End	Nortel Switch
Spec Ed	Project CQ PIII, 10Gig, 128MB	LJ 1200	Head End	Compaq DeskPro C400 (safari)
Spec Ed	Project CQ PIII, 10Gig, 128MB		Head End	Compaq Proliant 2500R6 (BDC)
Lab Up	Pilot - Compaq Presario		Head End	Teleseries Server
Lab Up	HP VectraMultimedia,CDRom4mbRAM			
Lab Up	HP VectraVL2,486/33sx4mb RAM			
Lab Up	HP VectraMultimedia,CDRom4mbRAM			
Lab Up	HP VectraMultimedia,CDRom4mbRAM			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL2, 8mb,540HD,CD-Rom			
Lab Up	HP VL4 CD-Rom			
Lab Up	HP VL4 CD-Rom			
Lab Up	HP VL4 CD-Rom			
Lab Up	HP VL4 CD-Rom			
Grade 5	Project CQ PIII, 10Gig, 128MB	LJ 1200		
Grade 5	Project CQ PIII, 10Gig, 128MB			
Grade 5	HP VE486/8mb/540HD			
Grade 5	TW			
Science Lab	Pilot - Compaq Presario			

SOFTWARE & HARDWARE PROJECTIONS

Each year the various Technology Teams will solicit requests for software and hardware. These requests will be reviewed and prioritized based on the previously established criteria indicated below.

The final recommendations for hardware, software purchasing and ongoing maintenance will follow the five-year cycle also indicated.

SOFTWARE PURCHASE PLAN
(Amount Determined By State Aid Figures
or $20 Per Student, Which Ever Is Greater)

Each year the software funds available would be divided between the 3 buildings, Elementary, Middle School & High School, based on building student population. (Example: Year 2004-2005 Elementary Student Population of 420 would equal $8,400)

First priority for the expenditure of these funds will be any district wide software needs. Any balance thereafter would be allocated as follows:

The respective Building Technology Committees would accept software title requests from faculty and make purchase recommendations to the District Technology Committee.

Should there be a balance of software funds available in any one building, requests would then be accepted from any other district personnel and the Building Committees would then made further recommendations to the District Technology Committee.

HARDWARE PURCHASE PLAN
(District Funds Coded as Hardware & Boces)

Year	District Labs ($50,000)	Elementary Classrooms ($50,000)	MS Classrooms ($50,000)	HS Classrooms ($50,000)	Headend Rooms ($25,000)
Year 1	Dalton Art & Music	24 Pilots & Grade 5	Art & Music	TV Studio & Radio Station	PDC & BDC Servers
Year 2	MS CAD & Tech Lab	Grade 4, Library & PE	English, Home & Careers	English and Foreign Lang.	Safari Servers & Guidance Dept.
Year 3	Elementary Lab	Grade 3 & 2	Social Studies & Science	Social Studies & Science	Business Lab
Year 4	MS LAB	Title I, Grade 1 & Kindergarten	Math, Title I, PE & Library	Math, Title I, PE & Library	Telephone/Voice Mail Servers
Year 5	HS LAB	Administrative & Special Ed Personnel	Administration & Special Ed Personnel	Administration & Special Ed Personnel	Schoolmaster & Finance Manager

Each year hardware funds will be prioritized as indicated above. The respective Building Technology Committee will accept hardware requests based on these priorities and make purchase recommendations to the District Technology Committee.

Should there be a balance of hardware funds available in any one building, requests would then be accepted from any other district personnel and the Building Committees would then made further recommendations to the District Technology Committee.

CURRICULAR GOALS: GRADES K-5

Following is a representation of our Elementary Objectives for the District Technology Goals as they align with State Learning Standards and District Curricular Objectives.

These current schemes are just the beginning of our District's integration of technology. It is our belief that once basic technology skill levels are mastered, the curriculum will become *infused* with technology and specific integration plans are obsolete.

It will be the responsibility of the Dalton Technology Team to review these goals on an annual basis with the following questions in mind:

> What Do We What Our Students To Learn?

> How Do We Know They Have Learned It?

> What Will We Do When They Have Not?

> What Will We Do When They Have?

** KINDERGARTEN **

ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
- Students will read, write, listen and speak for information and understanding.
- Students will read, write, listen and speak for literary response and expression.

District Curricular Objectives
- Students will consistently use context, phonetic clues and structural clues to recognize new words. Specifically, students will identify consonant sounds for symbols in context, product consonant sound for symbols in isolation, and recognize & name all letters of the alphabet in upper and lower case.

Technology Resources
- 1st Letter Fun
- Fun from A to Z
- Phonics Prime Time - Initial Consonants
- Jumpstart Kindergarten
- Phonics Prime Time - Final Consonants
- Reader Rabbit Ready for Letters
- Bailey's Book House
- Jumpstart First Grade

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
- Students will understand mathematics.
- Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
- Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
- Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
- Students will understand numeration system by relating counting, grouping and place value concepts. Specifically, students will master number recognition to 20, number sequence and counting.
- Students will describe, model, draw and classify shapes.

Technology Resources
- Early Addition
- Millie's Math House
- Jumpstart First Grade
- Jumpstart Kindergarten

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
- Students will recognize and know the location of the Enter Key, Space Bar, Arrow Keys, Power Switches and hands on the appropriate side of keyboard (L or R)
- Students will use the mouse for single-click commands and drag objects on the screen

** FIRST GRADE **

ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
- ◆ Students will read, write, listen and speak for information and understanding.
- ◆ Students will read, write, listen and speak for literary response and expression.

District Curricular Objectives
- ◆ Students will consistently use context, phonetic clues and structural clues to recognize new words. Specifically students will use picture clues, semantic, syntax and phonetic clues to recognize words; identify consonant sounds for symbols in context and produce consonant sounds for symbols in isolation; and recognize suffixes, phonograms and compound words.

Technology Resources
- ◆ 1st Letter Fun
- ◆ Phonics Prime Time - Initial Consonants
- ◆ Phonics Prime Time - Final Consonants
- ◆ Phonics Prime Time - Blends & Digraphs
- ◆ Word Munchers
- ◆ Paint with Words
- ◆ Jumpstart First Grade
- ◆ Prime Time - Vowels I
- ◆ Contraction Action
- ◆ Reader Rabbit 1
- ◆ Reader Rabbit 2
- ◆ Path Tactics
- ◆ MS Word

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
- ◆ Students will understand mathematics.
- ◆ Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
- ◆ Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
- ◆ Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
- ◆ Students will understand numeration system by relating counting, grouping and place value concepts. Specifically, students will master number recognition to 100 and counting.
- ◆ Students will develop number sense.
- ◆ Students will develop meaning for addition/subtraction operations.
- ◆ Students will develop whole number additio n/subtraction computation. Specifically, students will master sums to 10.
- ◆ Students will describe, model, draw and classify shapes.

Technology Resources
- ◆ Early Addition
- ◆ Coin Critters
- ◆ Jumpstart First Grade
- ◆ Math Rabbit

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
- ◆ Students will recognize and know the use of the Monitor, Keyboard, CPU, Floppy Disk Drive, CD-ROM Drive, Printers, Delete Key, Backspace Key, Escape Key, and Green & Orange Lights.
- ◆ Students will be able to boot-up a computer, identify "home row" keys with correct hand and enter their first and last name.

** SECOND GRADE **
ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
- ◆ Students will read, write, listen and speak for information and understanding.
- ◆ Students will read, write, listen and speak for literary response and expression.
- ◆ Students will read, write, listen and speak for critical analysis and evaluation.
- ◆ Students will read, write, listen and speak for social interaction.

District Curricular Objectives
- ◆ Students will understand and respond in written, oral and/or artistic ways to the text they read.
- ◆ Students will consistently use context, phonetic clues and structural clues to recognize new words. Specifically students will use picture clues, skipping the word & reading ahead and phonetic clues to recognize words; use blends, digraphs and vowel sounds; and recognize suffixes, phonograms, compound words and contractions.
- ◆ Students will read a variety of texts for different purposes

Technology Resources
- ◆ 1st Letter Fun
- ◆ Phonics Prime Time - Initial & Final Consonants
- ◆ Phonics Prime Time - Blends & Digraphs
- ◆ Word Munchers
- ◆ MS Word
- ◆ Prime Time - Vowels I
- ◆ Contraction Action
- ◆ Reader Rabbit 1
- ◆ Reader Rabbit 2
- ◆ Various interactive storybooks

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
- ◆ Students will understand mathematics.
- ◆ Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
- ◆ Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
- ◆ Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
- ◆ Students will understand numeration system by relating counting, grouping and place value concepts. Specifically, students will compare numbers up to 999.
- ◆ Students will develop whole number addition/subtraction computation. Specifically, students will master sums to 18 and 1 & 2 digit numbers with regrouping.
- ◆ Students will make and use measurements in problem and everyday situations. Specifically, time and money.
- ◆ Students will develop concepts of fractions. Specifically, students will identify 1/2, 1/3 & 1/4.

Technology Resources
- ◆ Early Addition
- ◆ Money Works
- ◆ Math Rabbit
- ◆ Clock Works

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
- ◆ Students will be able to Log on/off the Network and start a named program.
- ◆ Students will identify the standardized word processing program & letter keys with correct hand.
- ◆ While using a standardized word processor, students will type in a given sentence and correct any errors with the delete and/or backspace key.

** THIRD GRADE **

ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
- ◆ Students will read, write, listen and speak for information and understanding.
- ◆ Students will read, write, listen and speak for literary response and expression.
- ◆ Students will read, write, listen and speak for critical analysis and evaluation.
- ◆ Students will read, write, listen and speak for social interaction.

District Curricular Objectives
- ◆ Students will understand and respond in written, oral and/or artistic ways to the text they read.
- ◆ Students will consistently use context, phonetic clues and structural clues to recognize new words.
- ◆ Students will read a variety of text for different purposes.
- ◆ Students will independently select texts to read for enjoyment.

Technology Resources
- ◆ Type to Learn
- ◆ MS Word
- ◆ MS Powerpoint

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
- ◆ Students will understand mathematics.
- ◆ Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
- ◆ Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
- ◆ Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
- ◆ Students will develop whole number addition, subtraction and multiplication computation. Specifically, students will master sums to 18 and 1 & 2 digit numbers with regrouping.
- ◆ Students will make and use measurements in problem and everyday situations.

Technology Resources
- ◆ Addition Practice
- ◆ Major League Math
- ◆ Money Works
- ◆ Coin Critters
- ◆ Math Rabbit

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
- ◆ Students will be able to Log on/off the Network and start a named program.
- ◆ Students will identify the standardized word processing program and letter keys with appropriate hand.
- ◆ While using a standardized word processor, students will type in a given sentence and correct any errors with the delete and/or backspace key.

** FOURTH GRADE **

ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
◆ Students will read, write, listen and speak for information and understanding.
◆ Students will read, write, listen and speak for literary response and expression.
◆ Students will read, write, listen and speak for critical analysis and evaluation.
◆ Students will read, write, listen and speak for social interaction.

District Curricular Objectives
◆ Students will understand and respond in written, oral and/or artistic ways to the text they read for literal and interpretative understanding.
◆ Students will consistently use context, phonetic clues and structural clues to recognize new words.
◆ Students will read a variety of text for information purposes.

Technology Resources
◆ MS Word
◆ MS Publisher
◆ MS Powerpoint
◆ Various Internet Sources
◆ Type to Learn
◆ I Spy
◆ Explorapedia CD-ROM
◆ Accelerated Reader

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
◆ Students will understand mathematics.
◆ Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
◆ Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
◆ Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
◆ Students will develop whole number addition, subtraction and multiplication computation.
◆ Students will make and use measurements in problem and everyday situations.

Technology Resources
◆ Major League Math
◆ Money Works
◆ Coin Critters
◆ MS Excel

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
◆ Students will be able to Keep fingers on "home row", Learn position of all keys, Identify window icons and put in & run a CD-ROM.
◆ While using a standardized word processor, students will be able to type 10-15 wpm with less than 8 errors, Start a new file, Name/Save/Retrieve a file, Add/Delete letters/words/sentences & spaces and type a given single page document.

** FIFTH GRADE **
ENGLISH LANGUAGE ARTS CURRICULAR GOALS

State Learning Standards
- Students will read, write, listen and speak for information and understanding.
- Students will read, write, listen and speak for literary response and expression.
- Students will read, write, listen and speak for critical analysis and evaluation.
- Students will read, write, listen and speak for social interaction.

District Curricular Objectives
- Students will understand and respond in written, oral and/or artistic ways to the text they read for literal, interpretative and evaluative understanding.
- Students will consistently use context, phonetic clues and structural clues to recognize new words.
- Students will read a variety of text for information purposes.
- Students will independently select texts to read for enjoyment.

Technology Resources
- MS Word
- MS Publisher
- MS Powerpoint
- Various Internet Sources
- Explorapedia CD-ROM
- Type to Learn
- Encarta CD-ROM

MATH SCIENCE TECHNOLOGY CURRICULAR GOALS

State Standards
- Students will understand mathematics.
- Students will understand the common themes of mathematics and will apply these to this and other areas of learning.
- Students will apply the knowledge and thinking skills of mathematics to address real-life problems.
- Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems.

District Curricular Objectives
- Students will develop number sense and numeration. Specifically, students will be able to compare and order fractions and decimals.
- Students will develop whole number addition, subtraction, multiplication and division computation skills.
- Students will develop computation skills with fractions and decimals.
- Students will make and use measurements in problem and everyday situations. Specifically, time, money and metric units.
- Students will construct, read and interpret displays of data, specifically charts, tables and graphs.

Technology Resources
- Major League Math
- MS Excel

DISTRICT TECHNOLOGY GOALS

Elementary Objectives
- While using a standardized word processor students will be able to type 15-20 wpm with less than 6 errors, Highlight/Bold/Italicize/Underline text, use UNDO/Spell Check; Identify button bar functions, Activate Help menu, Insert Clip Art; Use a CD-ROM to gather information on a predetermined topic; Create a one-page research paper.

ELEMENTARY ACTION PLANS

Goal No. 1:

Now that our capital project has been completed, we need to provide all students and staff members' <u>maximum</u> access to the network by the purchase of additional hardware.

Hardware Strategies

The Dalton Technology Team will develop a prioritized plan for the purchase and maintenance of all technology hardware within the building.

Staff Development Strategies

Staff development should continue until such time as the entire faculty and staff have mastered basic technology understandings and skills as measures on a "Basic Competency Evaluation".

Budget

To be funded by local hardware and BOCES funds.

Goal No. 2:

To assist in preparing our students for further educational experiences and real life situations, a more defined technology curriculum should be developed.

Hardware Strategies

All current technology equipment, and any additional purchases, will be aligned with this curriculum. These purchases will follow the prioritized table outlined earlier.

Software Strategies

a. Any applicable titles for the peripherals purchased.

b. More reference material, of various content areas, grade levels and media types should be made available for all to use.

c. More content area related software packages to supplement and reinforce classroom curriculum should be made available.

Staff Development Strategies

a. A system of staff development needs to be built. Additionally, opportunities to see what other districts and facilities are doing should be made available. *(see <u>Appendix O</u>)*

Budget

To be funded by local district and BOCES funds

Goal No. 3:

To know whether or not our elementary students are leaving with the necessary computer skills for middle school, an assessment tool will need to be created.

Hardware Strategies

All current technology equipment, and any additional purchases, will be aligned with the elementary computer curriculum. All equipment will be made accessible to all our students.

Software Strategies

a.   Research any tools that may already exist and test their applicability.

b.   Purchase any valid titles.

Staff Development Strategies

Staff development strategies will be put into place once a curriculum and assessment tool have been decided upon.

Budget

To be funded by local district and BOCES funds

KESHEQUA

Central School

KESHEQUA

MIDDLE & High SCHOOL

Technology Implementation Plan

2004 - 2008

CURRENT SOFTWARE LIST

Following is a list of the most widely used software titles both on our network and on stand alone machines:

Adobe Pagemaker
Adobe Illustrator
Adobe Photoshop
AutoCAD Lite
Gradebook Deluxe
Hyperstudio
Inspiration
Lexia Reading Evaluation Series
MiniTab Statistics
MS Frontpage
MS Office Pro
MS Publisher
Online Public Access Catalog (OPAC)
SIRS Researcher
Union Online Public Access Catalog
Timeliner
Worksheet Magic

NUNDA HARDWARE INVENTORY
(AS OF SEPTEMBER, 2003)

UserName	Computer	Printer	UserName	Computer	Printer
Tax Collector	Project CQ PIII, 10Gig, 128MB	LJ 1200	MS Lab	SW	
Reception	Compaq Evo D510 SFF	DJ 720c	MS Lab	SW	
Secretary	Compaq Evo D510 SFF	LJ 6p	MS Lab	SW	
Superintendent	Project CQ PIII, 10Gig, 128MB	DJ ???	MS Lab	SW	
LT002-98	Compaq Presario 1625		MS Lab	SW	
BOE	SW		MS Lab	SW	
Business Office	HP Vectra VL400	LJ 4+	MS Lab	SW	
Business Office	HP Vectra VL400	LJ 4+	MS Lab	SW	
Bus Manager	HP Vectra VL400	LJ 6p	MS Lab	SW	
LT003-98	Compaq Presario 1625		MS Lab	SW	
LifeSkills	Pilot - Compaq Presario		MS Lab	SW	
Police Officer			MS Lab	SW	
School Store	---------------------------	-----	MS Lab	SW	
Tech	Project CQ PIII, 10Gig, 128MB		MS Lab	SW	
Cad Plotter		Plotter	MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	LJ 4100n
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		MS Lab	SW	
cad	CAD PC		Kitchen Office		LJ 1100
cad	CAD PC		Maintenance	DO	
cad	CAD PC		Wrestling Rm	---------------------------	-----
	Project CQ PIII, 10Gig, 128MB		Athletic Dir	Project CQ PIII, 10Gig, 128MB	LJ 1200
Radio Studio	Dell		PE-Girls		
Control Booth	HP VL2, 8mb,540HD,CD-Rom		PE-Boys		
Tech	Project CQ PIII, 10Gig, 128MB		Cafeteria		
Vocal Music	Project CQ PIII, 10Gig, 128MB		HS Gym	Drop Only	
Stage	---------------------------	-----	HS Gym	Drop Only	
Ins. Music	Project CQ PIII, 10Gig, 128MB	LJ 1200	MS Gym	Drop Only	
Spanish	Project CQ PIII, 10Gig, 128MB		DL Room	Project CQ PIII, 10Gig, 128MB	
French	Project CQ PIII, 10Gig, 128MB		Technicians		
MS	Pilot - Compaq Presario		LT007-98 / N#1	Compaq Armada 1573 Laptop	
MS	Project CQ PIII, 10Gig, 128MB	LJ 1200	LT008-98 / N#2	Compaq Armada 1573 Laptop	
MS	Project CQ PIII, 10Gig, 128MB	DJ 630c	MS	Project CQ PIII, 10Gig, 128MB	
MS Spec Ed	Project CQ PIII, 10Gig, 128MB	DJ 692c	Librarian	Project CQ PIII, 10Gig, 128MB	
MS	Project CQ PIII, 10Gig, 128MB		library	SW	LJ 1200
Health	Project CQ PIII, 10Gig, 128MB	DJ 660c	library	SW	
MS Lab	Project CQ PIII, 10Gig, 128MB		library	SW	
library	SW		Bus Lab	SW	LJ4100N
library	SW		Bus Lab	SW	
Spec Ed	HP Vectra VL400		Bus Lab	SW	
Case Worker	HP Vectra VL400	LJ 1200	Bus Lab	SW	
Speech	Project CQ PIII, 10Gig, 128MB		Bus Lab	SW	

Spec Ed	Project CQ PIII, 10Gig, 128MB	*DJ 930c*	Bus Lab	SW	
Spec Ed	Compaq Evo D510 SFF		Bus Lab	SW	
LT004-98	Compaq Presario 1235		Bus Lab	SW	
Guidance	Compaq Presario 2416 ES		Bus Lab	SW	
Guidance	Compaq Evo D510 SFF		Bus Lab	SW	
Guidance	Compaq Evo D510 SFF		Bus Lab	SW	
Spec Ed		LJ 4+	Bus Lab	SW	
Secretary	Compaq Evo D510 SFF		Bus Lab	SW	
HS Princpal	Project CQ PIII, 10Gig, 128MB		Bus Lab	SW	
HS Princpal	Compaq Armada 1700 Laptop		Bus Lab	SW	
Nurse	HP Vectra VL400		Bus Lab	SW	
Guidance	Compaq Evo D510 SFF		Bus Lab	SW	
Secretary	Compaq Evo D510 SFF		Bus Lab	SW	
MS Principal	Project CQ PIII, 10Gig, 128MB		Bus Lab	SW	
MS Principal	Compaq Armada 1700 Laptop		Bus Lab	SW	
HS	Project CQ PIII, 10Gig, 128MB		HS	Project CQ PIII, 10Gig, 128MB	LJ 1200
HS	Project CQ PIII, 10Gig, 128MB		OT/PT	---------------------------	-----
HS	Project CQ PIII, 10Gig, 128MB		HS Spec Ed	Project CQ PIII, 10Gig, 128MB	LJ 1200
HS Prep	Pilot - Compaq Presario	LJ 1200	HS	Project CQ PIII, 10Gig, 128MB	DJ 720c
Art	Project CQ PIII, 10Gig, 128MB		HS	Project CQ PIII, 10Gig, 128MB	
			HS	Project CQ PIII, 10Gig, 128MB	
			HS	Project CQ PIII, 10Gig, 128MB	
HS	Project CQ PIII, 10Gig, 128MB	LJ 1200	HS Prep	Pilot - Compaq Presario	LJ 1200
HS	Project CQ PIII, 10Gig, 128MB		MS	Project CQ PIII, 10Gig, 128MB	Lexmark Z22
MS	Pilot - Compaq Presario	DJ 720c	MS	Project CQ PIII, 10Gig, 128MB	
MS Prep	Pilot - Compaq Presario	LJ 1200	MS Prep	Project CQ PIII, 10Gig, 128MB	LJ 1200
MS	Project CQ PIII, 10Gig, 128MB		HS Spec Ed	Project CQ PIII, 10Gig, 128MB	
MS Prep	Pilot - Compaq Presario	LJ 1200	HS Spec Ed	Project CQ PIII, 10Gig, 128MB	
Title I	Project CQ PIII, 10Gig, 128MB		Maintenance	Pilot - Compaq Presario	
MS	Project CQ PIII, 10Gig, 128MB		HS	Project CQ PIII, 10Gig, 128MB	
MS Spec Ed	Project CQ PIII, 10Gig, 128MB		HS	Project CQ PIII, 10Gig, 128MB	
MS Spec Ed	Project CQ PIII, 10Gig, 128MB		Study Hall	Pilot - Compaq Presario	
MS Spec Ed	Compaq DeskPro C400		STW	Pilot - Compaq Presario	DJ 660c
Life Skills	Project CQ PIII, 10Gig, 128MB		HS	Pilot - Compaq Presario	
HS	Project CQ PIII, 10Gig, 128MB		HS		
Art	Project CQ PIII, 10Gig, 128MB		HS	Project CQ PIII, 10Gig, 128MB	
HS Spec Ed	Project CQ PIII, 10Gig, 128MB	DJ 660c			
HS	Project CQ PIII, 10Gig, 128MB		z1239	router	
----------	---------------------------	-----	z1239	HP LC 2000 (Admin)	
HS	Project CQ PIII, 10Gig, 128MB		z1239	HP e-PC SFF Host PC #1	
HS	Project CQ PIII, 10Gig, 128MB		z1239	HP e-PC SFF Host PC #2	
			z1239	HP e-PC SFF Host PC #3	
			z1239	HP e-PC SFF Host PC #4	
			z1239	HP ePC SFF Host PC #5	
			z1239	Teleseries Server	
			z1239	Nortel Switch	
			z1239	Safari Server	
			z1239	Part200 Server	
			z1239	Compaq Proliant 2500R6 (PDC)	
			z1239	Phone Server	
			z1239	TAC CD Tower	

TECHNOLOGY OFFERINGS

There are numerous course offerings with regard to technology available at the Middle and High School level. Some examples include:

1.   College Offerings

Various college level courses, including but not limited to English, Statistics, Western Civilization & Cell Biology.

2.   Computer 9/10 (Electronic Information Processing)

This is an intermediate computer course that gives the students the opportunity to develop the technological skills required for the world of work. Computer applications using MS Office software will prepare students for both success at Keshqua Central, as well as down the road in entry level work or post secondary education.

3.   Computer 11/12 (Office Practice & Web Design)

A full year hands on computer course that includes more advanced computer software applications. Students will use the Internet for business. HTML is taught for a section and them MS Frontpage is used to design web pages that could be used for e-commerce.

4.   Communication Systems I & II:

Gives students a wide and fundamental view of many disciplines which make up the field of communications. Subjects include screen printing, computer graphics, audio, video and print.

5.   Graphic Arts I & II:

These classes offer projects that reflect layout & design, simple video production & editing, digital printing, screen printing and stained glass

6.   CAD:

This course is designed around the use of computers in creating mechanical and architectural drawings.

7.   Digital Photography:

Digital Photography is quickly becoming the new and most creative way to capture an image without the worry & cost of film. This course explores the most common digital camera components & the fundamentals of using the digital cameras.

In addition to these specific offerings, there are numerous instances in which technology is already being used in the classrooms. Some examples include:

- In the Learning Centers and Resource Rooms, student practice their math, spelling and science skills. A teacher notes that students "greatly prefer computer review to any other type of review".

- An interdisciplinary writing assignment was initiated between an English 7 and Social Studies 7 teachers. This assignment was produced on a word processor, with a picturesque cover page designed by the students.

- A 7th Grade English teacher added the use of Powerpoint presentation software to her existing oral report requirement.

- An 8th grade Social Studies teacher incorporates technology in a variety of ways. In addition to drill and practice, remediation and review, word processing and databases, computers are used to collect, analyze and present data in new ways. For example, students create and analyze graphs dealing with the Civil War and classroom presentations are enhanced through the use of laser discs and hyperstudio programs.

- Some ninth grade global studies classes receive their homework assignments from their teacher via the computer network and each is responsible to complete the assignment on a word processor.

- Tenth grade Biology students are beginning to use computers in laboratory write-ups and the construction of charts and graphs associated with lab activities.

- A senior English class completes forms (designed by their teacher and distributed to them via the network) for all their book, film and periodical reviews.

CURRICULAR GOALS: GRADES 6 - 12

In the Keshequa Middle & High School the strategy is to directly integrate technology skills into the core curricular areas. We believe this approach will assist our students in making the real world connection of the importance of technological skills.

Students will be able to successfully use technology as a tool to:
- ♦ Access information from a variety of sources
- ♦ Evaluate information
- ♦ Manipulate and synthesize information
- ♦ Communicate and implement this "knowledge" through a variety of media

Following are the exit outcome goals desired in a graduate from Keshequa Central:

GOAL NO. 1:
> The student will have the knowledge and skills to be able to use technology as a tool for both personal and professional pursuits.

GOAL NO. 2:
> Students will have the technical knowledge and skills that empower them to solve problems, complete a task and/or create a product within a required time frame.

GOAL NO. 3
> Students will demonstrate their capability to access information, collect data and communicate electronically.

GOAL NO. 4:
> Students will demonstrate their understanding of the relationship between academic subjects and a variety of technological media.

Having achieved a certain mastery level by the Elementary School, students are expected to continue their technological progression in the Middle and. High Schools. Following are some recommended benchmarks. Specific curriculum integration will be developed on a departmental level and will be added to and become a part of this Plan.

MIDDLE & HIGH SCHOOL ACTION PLANS

Goal No. 1:

Now that our capital project has been completed, we need to provide all students and staff members' <u>maximum</u> access to the network by the purchase of additional hardware.

Hardware Strategies
The Dalton Technology Team will develop a prioritized plan for the purchase and maintenance of all technology hardware within the building.

Staff Development Strategies
Staff development should continue until such time as the entire faculty and staff have mastered basic technology understandings and skills as measures on a "Basic Competency Evaluation".

Budget
To be funded by local hardware and BOCES funds.

Goal No. 2:
To assist in preparing our students for further educational experiences and real life situations, a more defined technology curriculum should be developed.

Hardware Strategies
All current technology equipment, and any additional purchases, will be aligned with this curriculum. These purchases will follow the prioritized table outlined earlier.

Software Strategies
a.   Any applicable titles for the peripherals purchased.
b.   More reference material, of various content areas, grade levels and media types should be made available for all to use.
c.   More content area related software packages to supplement and reinforce classroom curriculum should be made available.

Staff Development Strategies
a.   A system of staff development needs to be built. Additionally, opportunities to see what other districts and facilities are doing should be made available. *(see Appendix O)*

Budget
To be funded by local district and BOCES funds

Goal No. 3

To assist in providing access to information on demand, provide more individualized student-centered opportunities and prepare students for real life work situations, our facilities need to be equipped with more up-to-date technology.

Hardware Strategies
    a.   Mobile Multimedia Cart: complete with workstation, TV monitor, projection devise, scanner, digital camera & color printer for use in any area of the building.
    b.   Peripherals such as a laptop computer or "mini computer" (eg. Dreamwriter) should be housed and made available to students and staff.

Software Strategies
    a.   Any applicable titles for the peripherals purchased.
    b.   More reference material, of various content areas, grade levels and media types should be made available for all to use.
    c.   More content area related software packages for classroom supplementation and reinforcement should be made available in the lab.

Staff Development Strategies
    a.   A system of staff development needs to be built in and made a part of our current class schedules. Additionally, opportunities to see what other districts and facilities are doing should be available.

Budget
    To be funded by local district and BOCES funds

PLAN EVALUATION PROCESS

A yearly review of the Action Plans will take place mid-year of each plan year by the each Technology Team to determine whether or not revisions and/or alterations of the goals, strategies and action plans should take place.

Additionally, subsequent phases will be determined by ongoing curriculum development and what is decided to be the relevant hardware, software, application and staff development needs.

During each of these phases, the following criteria will be used to determine our needs:

◆ Does the plan align with district curricular goals?

◆ Is the plan cost-effective?

◆ Does the plan require a further review of current technology systems?

◆ Is the plan grade/age/user level appropriate?

◆ Are there any other district plans that supersede this plan?

Appendix A

District Strategic Plan

Appendix B

1993-1994 District Technology Plan

__Appendix C__

Library Automation CoSer

<u>Appendix D</u>

BETA Project

Appendix E

March 13, 1995 Memo
Regarding Recommendations for High School Computer Plan

<u>Appendix F</u>

Computer Knowledge Survey & Results

<u>Appendix G</u>

1996-1997 BOCES Bid for Upgrades

<u>Appendix H</u>

Survey of District Technology Needs
Survey of Current Technology Uses in the Classroom

Appendix I

1996-1997 Hardware Inventory and Maps

Purchase Date	Item	Quantity	Make & Model	Specs

DALTON LAN

Purchase Date	Item	Quantity	Make & Model	Specs
94-95	Server	1	HP Netserver LC1050	1gb HD 4gb HD 48mb RAM
94-95	Workstations	13	HP VL 4/33	210mb HD 8mb RAM
95-96		22	HP VL2	540mbHD 8mb RAM
96-97		5	HP VL4	1gb HD 16mb RAM
94-95	Printers	1	HP LJ 4+	
		3	OKI 591	
95-96		4	HP DJ 660c	
		1	OKI 590	
97-98		1	HP DJ 692c	
96-97	Peripherals:	1	Toshiba Data Projector	
97-98		1	HP ScanJet	

NUNDA LAN

Purchase Date	Item	Quantity	Make & Model	Specs
94-95	Server	1	HP Netserver LC1050	1gb HD 4gb HD 48mb RAM
93-94	Workstations	19	HP VL2 4/25e	101mb HD 20mb RAM
94-95		13	HP VL 4/33	210mb HD 8mb RAM
95-96		22	HP VE DX2	420mb HD 8mb RAM
96-97		1	HP VL4	1gb HD 16mb RAM
93-94	Printers	3	Epson LQ	
94-95		1	HP LJ 4+	
		3	OKI 591	
95-96		1	DJ 660c	
		2	OKI 590	

97-98	Peripherals:	1	HP ScanJet	
		1	Toshiba Data Projector	
		1	Kodak DC50	
		1	Compaq LTE 5380 (laptop)	2gb HD 32mb RAM

ADMINISTRATIVE LAN

93-94	Server	1	Gateway 4DX2-66V	340mb HD 48mb RAM
93-94	Workstations	9	Gateway 4sx-33	212mb HD 4mb RAM
		1	HP 4/25e	
94-95		1	HP Vectra VL2 4/50	200mbHD 20 mb RAM
		1	MAC 6100	
95-96		3	HP VE DX2/66	420mb HD 8mb RAM
96-97		1	HP Vectra VE3	
97-98		1	Compaq	
		1	Compaq	
		1	Compaq	
93-94	Printers	6	OKI 395	
		3	OKI 590	
		1	Epson	
94-95		1	DJ 540	
95-96		1	HP LJ 4+	
96-97		1	HP LJ	
97-98		1	HP LJ 5	
		1	HP DJ	
	Peripherals:			

DALTON NT LAN

97-98	Server	1	Compaq ProLiant 2500	4gb HD 124mb RAM
97-98	Workstations	12	Compaq Presario 4153ES	2gb HD 24mb RAM
97-98	Printers	3	HP DJ895	
97-98	Peripherals	12	Phillips 35" Monitors	
		8	CATV Tunners	

		5	VCRs
2	Cdi Players
1	DVD Player
3	Laser Disc Players
1	Digital Camera
2	7-Bay CD Towers

NUNDA NT LAN

97-98	Server	1	Compaq ProLiant 2500	4gb HD 124mb RAM
97-98	Workstations	12	Compaq Presario 4153ES	2gb HD 24mb RAM
97-98	Printers	2	HP DJ895	
97-98	Peripherals	12	Phillips 35" Monitors	
		8	CATV Tunners	
		6	VCRs	
		1	Cdi Players	
		1	DVD Player	
		4	Laser Disc Players	
		1	Digital Camera	
		1	7-Bay CD Towers	

Appendix J

1998 Compaq/Dynacom Map (PILOT) and Inventory List

Appendix K

Capital Project Educational Plans

Appendix L

Project As-Builts

Appendix M

Board Approved District's Web Site Policy

Appendix N

Board Approved District's Acceptable Use Policy

Appendix O

District Professional Development Plan

Appendix P

Budget Summaries

2005-2006 School Year
2006-2007 School Year