
Technology Plan

June 30, 2007 – July 1, 2010

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District: Washtenaw County

District Code : 81906

Table of Contents

School Contact Information.....	3
Introduction.....	4
Goals.....	5-10
School Affiliation and Philosophy.....	11
High Student Achievement.....	12
Safe, Orderly and Caring Schools.....	12
Quality teachers, Leaders and Staff.....	12
Strong Family, Community, Business Support.....	12
Effective and Efficient Operations.....	13
Curriculum and Instruction.....	14-16
Timeline for Curriculum Integration.....	17-18
Staff Development.....	19-20
Connectivity and Infrastructure.....	21-22
Personnel.....	23
Resources	
Network.....	24
Software.....	24
Hardware.....	25
Current Situation.....	25-26
Future Situation.....	25-26
Guidelines.....	28-29
Budget.....	30-31
Communication and Collaboration.....	32
Evaluation.....	33
Appendix A	
AUP.....	34-39
Scope and Sequence.....	40-43

Technology Plan

June 30, 2007 – June 30, 2010

School name

School Contact Information

Intermediate District Name:	Washtenaw Intermediate School District
District Name:	Fortis Academy
School Name:	Academy
School Code Number:	81906
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City, State. Zip code:	Ypsilanti, MI 48197
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School Technology Committee Members	Chris Thompson – Principal Lynn Van Kueren – Parent Ebony Chisholm – TS Tim Kartje – Teacher Wade Davis – Teacher
URL for technology plan on Web:	www.fortisacademy.org
Years covered by plan:	2007-2010
Start date of plan:	July 1, 2007
End date of plan:	June 30, 2010

Introduction

School name

School Technology Purpose Statement

Working in partnership with parents and community, the Fortis Academy mission is to create an integrated approach to technology education within the school building. We expect our students to master the basic technology skills and realize their full academic potential in preparation for higher education and adulthood with the use of technology. The purpose of National Heritage Academies is “challenging each child to achieve”.

Vision

All students will be computer literate by Eighth Grade.

School History & Demographics

Fortis Academy was founded in 2006 by local board of directors. Subsequently, National Heritage Academies was hired to provide professional services to Fortis Academy. Since its opening, Fortis Academy has an enrollment of 625. It is a one building facility with grade level K-8. The school has 40 teachers.

The population of the school reflects that of the surrounding community and is broken out as detailed below:

School Demographics

	Female	Male	Total
American Indian/ Alaska Native/Native Hawaiian			.01%
Asian American			10%
Black/African American			42%
Hispanic/Latino			4%
White			44%
Totals			100%

Goals – Curriculum

A. Curriculum Integration

Goal	Objective/ Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Teachers will use curricular lessons infused with technology to meet the requirements of both the NHA Technology Scope & Sequence and the Michigan Educational Technology Standards.	Complete a minimum of 1 lesson/project that incorporates technology for each core subject area (Language Arts, Math, History, and Science).	Technology Facilitator. Academic Curriculum Resources. Technology Scope & Sequence. Appropriate network Hardware & Software.	Technology Facilitator. Individual Classroom Teacher.	Staff salary budget	September through June each year.	Teachers will use the Technology Skills Assessment Checklist quarterly to measure student skills. Student portfolios will be kept and updated to document projects.
2. Teachers will teach and reinforce skills specific to technology in the context of the regular academic curriculum.	Complete a minimum of 1 lesson/project that incorporates technology for each core subject area (Language Arts, Math, History, and Science).	Technology Facilitator. Academic Curriculum Resources. Technology Scope & Sequence. Appropriate network Hardware & Software.	Technology Facilitator. Individual Classroom Teacher.	Staff salary budget	September through June each year.	Teachers will use the Technology Skills Assessment Checklist quarterly to measure student skills. Student portfolios will be kept and updated to document projects.
3. Teachers will be able to utilize online tools to manage and use curriculum resources for delivery of instruction to students.	Understand how to use NHA Curriculum Center.	Technology Facilitator. Curriculum Center.	Technology Facilitator. Individual Classroom Teacher.	Staff salary budget	September through June each year.	Download and teaching of new curriculum resources.
4. Assist personnel in the creation and use of project-based, interdisciplinary units that integrate technology into all curricula.	Develop an understanding of regular academic curriculum and technology skills from the Scope and Sequence. Align technology skills with student projects from regular curriculum. Create and use projects that integrate technology.	Technology Facilitator Academic Curriculum Resources Technology Scope & Sequence Appropriate network Hardware & Software	Technology Facilitator Individual Classroom Teacher	TF and Staff salary budget	September through June each year.	Teachers will use the Technology Skills Assessment Checklist quarterly to measure student skills. Student portfolios will be kept and updated to document projects.
5. Provide guidance to all teachers to develop effective formative evaluation processes.	Train teachers in the use of Technology infused lessons and assessment.	Technology Facilitator	Technology Facilitator	TF Salary and benefits Professional Development budget	September through June each year.	Running records of technology skill achievement per student.
6. Schedule computer lab so that students and teachers can access resources and services at point of need.	Develop a computer lab schedule with open time slots for use when needed.	Technology Facilitator Computer Lab Schedule	Technology Facilitator	TF Salary and benefits	September through June each year.	Completion of computer lab log showing class accessibility and use of computers.

Goals – Curriculum

B. Student Achievement

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Continuously identify goals and assess progress of school level educational technology plan.	Monitor progress of goals on a monthly basis.	Technology Facilitator. School Technology Plan. School Improvement Plan.			September through June each calendar year.	Revised educational technology plan.
2. Support the creation and use of teacher created rubrics to evaluate students' media and technology projects.	Train teachers in the use of a technology skill assessment checklist/rubric.	Technology Facilitator Technology Scope & Sequence			September through June each calendar year.	Teacher use and submission of completed rubrics.
3. Corrections will be made to technology projects and/or plans as they are needed, based on formative assessments.	Measure student skill development during project completion.	Technology Facilitator. Lesson Plans outlining formative assessment procedure(s). Technology skill checklist.			September through June each calendar year.	Completion of skill checklist. Assessment of goals met each May.
4. Collect baseline data at the start of every media and technology initiative.	Create and administer a formative baseline technology skill assessment.	Technology Facilitator.			September through June each calendar year.	Completion of skill checklist. Assessment of goals met each May. 8 th Grade Literacy Report to Michigan each June.

Goals - Curriculum

D. Parental Communications and Community Relations

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Promote parent collaboration in their child's education through the use and access of student data systems (atschool.com).	Hold a parent information meeting to highlight access, availability of online student assessment data.	Computers Student Data systems	Administrator.		Ongoing throughout the calendar year.	List of parent applications for online access to the student assessment data.
2. Staff will be proficient in uploading their classroom/grade level newsletters through Atschool in order to provide an alternate vehicle for communication with parents.	Provide training/assistance for producing and uploading newsletters.	LTS Computers		School operational technology budget.	Ongoing throughout the calendar year.	All grade levels will have weekly newsletters posted online.
3. Staff will be proficient in using electronic tools (i.e. Email) to communicate and collaborate with other people throughout the organization.	Provide training on Email use based upon individual staff development plan.	LTS Training Materials.		Professional development resources and NHA technology budget.	Ongoing through the calendar year.	Staff Self-Assessment. Review of TDS survey in September and May of each school calendar year.
4. Staff will be able to use network drives and resources to share knowledge and 'best-practices'.	Provide training on accessing and using network drives.	LTS Training Materials.			Ongoing through the calendar year.	Ongoing development of NHA Curriculum Center resources.

Goals - Curriculum

E. Collaboration

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
<ol style="list-style-type: none"> The school will continuously seek additional volunteer sources to give support to the Technology Facilitator and to maximize services of curricular and staff development. Fortis Academy will continue to promote their technology program at Open House events for the community. Fortis Academy is not developing Adult Literacy programs since it is a K-7 school elementary program.** 	Establish extra volunteers for additional support for the Library Media Center	Technology Facilitator. Parent Volunteers. Staffing at after school events.	Administrator LTS.	Media Center supplies and special events budget.	September through June each school calendar year.	Increase in work support for the LTS based on additional volunteers. Assess volunteer program on an annual basis each spring, LTS and school administrators.

Goals – Professional Development

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Annual technology development plans will be created by the LTS and principal	Administer self-assessment survey to the staff for the creation of individual staff development plans.	LTS Staff Survey. Individual staff Development Plans.	LTS Principal	NHA operations budget for professional development	September through June each year.	Staff list of individual technology staff development plans.
2. Professional Development will be delivered in multiple mediums to meet the various needs of individual teachers.	Provide training in appropriate medium based on individual staff development plan.	LTS Training Materials. Access to various training resources.	LTS Principal	NHA operations budget for professional development	September through June each year.	Staff Survey.
3. Technology will be effectively used in the regular academic curriculum by the school staff.	Complete a minimum of 1 lesson/project that incorporates technology for each core subject area (Language Arts, Math, History, and Science).	LTS Grade level lesson plans. Hardware and software resources.	Teachers	NHA operations budget for professional development	September through June each year.	Checklist of projects completed per teacher.
4. School improvement goals and individual professional growth plans will be reflected in technology staff development.	Align SIP goals with staff technology survey goals.	LTS SIP. Staff survey.	LTS Principal	NHA operations budget resources for sub pay to encourage teachers to plan for technology integration	September through June each year.	Revised staff survey.
5. School staff will be continuously assessed to ensure that their development is meeting their own instructional and administrative needs.	Distribute Staff Development surveys for needs assessment.	LTS Staff Development workshops. Survey.	Principal	NHA operations budget	September through June each year.	Completed surveys.

Goals – Professional Development

F. Professional Development

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Staff will participate in curriculum sharing by submitting resources to National Heritage Academy's online lesson plan database.	Submit at least one 'best-practice' lesson or unit to Curriculum Center.	Electronic version of lesson or unit. Curriculum Center. Email. LTS	LTS Teachers Principal NHA Service Center	Technology purchase, software upgrades and media supplies. Professional development budget.	September through June each school calendar year.	List of staff with electronically posted resources.
2. Integrate use of electronic resources into classroom practice.	Align use of educational software (e.g. Inspiration, Timeliner) and NHA History Interactive into classroom practice to improve student achievement.	Computers. Software. Regular academic Curriculum Resources. Internet Connection.	Teachers LTS	Technology WAN budget, professional development and software upgrades.	September through June each school calendar year.	Checklist of projects completed highlighting software use with academic goals per teacher.

Goals – Infrastructure, Hardware, Technical Support and Software

H. Technical Specification - Design

I. Increase Access

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. All staff members will have their own computer.	Identify staff needs and purchase appropriate number of computers.	LTS NHA Service Center Principal	. NHA operations budget for computers	Technology Purchases.	September through June of each calendar year	Purchased computers for all staff.
2. Allocate and distribute hardware throughout the building to meet instructional requirements and improve student achievement.	Provide greater access of computers to students.	LTS NHA Service Center	NHA operations budget for computers	Technology Purchases	September through June of each calendar year	Log of increased instructional time per grade.

Goals – Funding and Budget

J. Budget and Timetable

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Plan for and acquire hardware in accordance with the guidelines stated above.	Purchase extra technology hardware.	School Budget. Corporate Technology Consultant.	Administrator	Technology Purchases.	September through June each school calendar year.	Deployment of appropriate hardware in the school annual assessment by NHA – IT team and school leadership.

Goals – Funding and Budget

K. Coordination of Resources

Goal	Objective / Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Time-line (Beginning & Ending dates)	Method of Evaluation
1. Develop & utilize a plan to establish external funding for the development and sustenance of instructional computing resources, curriculum and professional development.	Establish extra funding for instructional requirements & professional development.	NHA and principal	Administrator. NHA Service Center	Professional development resources	September through June each school calendar year.	Increase and implement additional technology resources and staff development opportunities. Ongoing throughout the school year, annual assessment each spring.

School Affiliation & Philosophy

In order to fully understand the role of technology at Fortis Academy, it is important to understand the relationship between the school and the company contracted to provide professional services.

National Heritage Academies (NHA) is an Educational Services company founded in 1995 to support charter schools with professional management services. Since its first contract with Excel Charter Academy in Grand Rapids, Michigan, NHA has expanded to support 53 schools serving over 32,000 students in 2006-2007.

NHA provides shared services between the schools it manages including, but not limited to:

1. Facility management
2. Curriculum support & staff development
3. Human resource support
4. Accounting and finance support
5. Board relations
6. State compliance & reporting
7. Technology infrastructure design, management, and support

NHA affiliated schools maximize school success through a deliberate process of sharing common resources to leverage economies of scale and sharing best practices to drive for continuous improvement.

For more information about National Heritage Academies, please refer to the NHA website, <http://www.heritageacademies.com>.

High Student Achievement

Student achievement is the focus for measuring success at Fortis Academy. Bearing this in mind, all activities and programs are evaluated using this metric. Technology, therefore, adds value in as much as it positively impacts student achievement.

We believe that “how” technology is applied in the classroom is substantially more important than “how much” or “how often” technology is applied. Technology’s role in an instructional setting must be deliberate, well-designed and continuously assessed. The successful application of technology for learning lies in the alignment of curriculum, staff preparedness, the quality and availability of training, responsive support systems, and the existence of a reliable and accessible infrastructure.

Safe, Orderly, and Caring Schools

Fortis Academy relies on NHA’s proprietary Moral Focus curriculum as a core element for developing a safe, orderly, and caring school environment. In a culture that is increasingly dominated by the presence of technology, students must be able to see the connection between actions and consequences. Just as NHA aligns its technology with its instructional goals and objectives, the policies relating to technology use must align with the development of strong moral character and good citizenship. This alignment is reflected in documents such as the Acceptable Use Policy [AUP], Internet Usage Policy and the application of copyright laws (see **Appendix A**).

Quality Teachers, Leaders, and Staff

Fortis Academy is committed to developing an environment that fosters professionalism, personal growth, and knowledge acquisition. Technology plays a key role in the development of this environment by providing tools that can increase productivity, allow access to NHA’s curriculum resources, and connect teachers with resources and people throughout the world. To develop truly world-class teachers and administrators, Fortis Academy will implement a targeted staff development program designed to help the teachers at school become more effective in their various roles by leveraging technology. This staff development effort will be supported by NHA resources and methodologies as part of a larger staff development effort.

Strong Family, Community, and Business Support

Fortis Academy is committed to partnering with parents as a foundational element of our educational program and the development of a strong school culture. Research tends to support this approach, indicating that parent involvement has a measurable impact on student achievement¹. Accordingly, over the 2006-2007 school years, a technology committee made up of Fortis Academy administration, teachers and parent consultant was established to begin the initial process of developing and finalizing this plan. A parent representative from the Taylor Exemplar Academy School Improvement Team has also reviewed and approved this current plans emphasis and goals.

With the support of NHA, Fortis Academy believes that communication technology can be a powerful force in removing the barriers that sometimes exist between the classroom and

the living room. Access to the Internet is increasingly more available NHA has already initiated efforts that build and support technologies to extend the learning environment beyond the walls of the classroom and into student's homes. Additionally, the application of technology will, in the future, provide parents with access to supplemental curricular materials that will reinforce the students' classroom experiences.

The use of technology also provides Fortis Academy with the ability to involve the greater community in the life of the school. With tools already in place, Fortis Academy can make school-related information publicly available on the school Web site.

Effective and Efficient Operation

Fortis Academy has significant benefits through the association with NHA. Access to professional services and resources and the technology program. Because Fortis Academy is one of 53 schools receiving services from NHA, we are able to take advantage of a shared services model referred to as Total Cost of Ownership. Through our contract, we are serviced by a professional technical team that provides Fortis Academy with consulting, implementation, and support for all technology efforts. As a result of these shared services, our school is part of a network of other schools and best practices are shared on a regular basis. Ultimately, the partnership between Fortis Academy and NHA allows the school's staff to focus its efforts on the delivery of instruction and student achievement implementing and supporting technology.

Curriculum and Instruction

Current Situation

While NHA provides a recommended curriculum scope and sequence for technology use and skill development, is focused on implementing these resources to ensure that all students develop the computer skills to be technologically literate by the time they leave the Eighth Grade.

With access to technology as outlined in the infrastructure & connectivity section of this plan, Fortis Academy has the resources necessary to effectively deliver the curriculum. In addition, the school allocates time for technology use to meet NCLB (NETS) and Michigan Technology Standards (METS).

Time Committed to Technology Instruction (Weekly)	
Kindergarten	0 minutes
First Grade	5 minutes
Second Grade	10 minutes
Third Grade	15 minutes
Fourth Grade	20 minutes
Fifth Grade	20 minutes
Sixth Grade	Flex
Seventh Grade	Flex
Eighth Grade	

Additional technology use is expected outside of technology-specific instruction. Students are asked to use technology to further their academic development through its use in content-specific projects such as curriculum-based presentations, classroom simulations, and research/review of Web-based content.

Fortis Academy encourages the teachers' use of technology by providing real-time support through the LTS. Based in the school, the LTS consults with teachers on a daily basis to identify and support technology integration opportunities within the classroom. Through the school's affiliation with NHA, the school's TF meets regionally with other LTS' to share best practices with one another. The LTS also meets on a regular basis with school leadership to review goals for technology education.

Future

Philosophy

- By incorporating NHA's approach to technology into the school environment, students at Fortis Academy will develop information literacy skills through a comprehensive technology curriculum.
- These skills will be transferred through the contextual use of the technology in the course of academically related activities.
- Teachers will develop an appropriate technology skill-set through well-aligned staff development opportunities and will apply these skills in their instruction.

Developing Technology Skills

- NHA's core academic curriculum is very rigorous, focuses on the development of foundational skills and background knowledge.
- It is essential that instructional time be provided for the development of these skills and to prioritize this instructional time relative to the core academic areas.
- While computer technologies should be used at all grade levels to support the delivery and enhance the effectiveness of instruction, no formal computer training is prescribed for students in grades K-2 in the NHA scope and sequence.
- In accordance with NHA's educational approach, focusing on computer training in the early grades would disrupt time from the development of more foundational elements of the child's education.
- During the upper elementary years (grades 3-5), the curriculum calls for students to develop specific technology skills that align with state and national standards. With the ultimate goal of having each 8th grade student technology literate, technology-skill instruction will be addressed in the context of academic coursework during each student's middle school education. NHA has provided for additional computers in the classroom as well as the media center lab setting.

Technology Approach by Grade Level

	Philosophy / Approach	Resources
K – 2	<p>Technology skills are not formally taught or assessed. Technology is used throughout the curriculum to enhance instruction as appropriate and as indicated in the curriculum guidelines.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Students access technology in the classroom (mobile computer labs) or the media center as part of an instructional activity. Use of technology is designed solely to reinforce mastery of the content material. • Teachers use technology to enhance the presentation of material to their students through simulation, projection, etc. 	<p>LCD projectors, Internet connectivity Limited student access to computers in common spaces or in the classroom</p> <p>Basic computer skills introduced in lab and classroom setting.</p>
3 – 5	<p>Instructional time is dedicated to developing specific technology skills such as:</p> <ol style="list-style-type: none"> 1. Computer operations 2. File management 3. Word processing 4. Keyboarding 5. Presentation tools 6. Spreadsheet use 7. Database basics 8. Internet use & responsibilities <p>Examples:</p> <ul style="list-style-type: none"> • All fourth grade students take part in a 9 week keyboarding course with periodic refresher lessons throughout fifth grade • Teachers provide students with technology-specific instruction to prepare them to apply the use of technology to their learning. For example, a teacher may give instruction on writing formulas in a spreadsheet in preparation for a unit in which data will be stored and evaluated using a spreadsheet. • Teachers will use a combination of curriculum-aligned activities and fully technology-integrated units of curriculum to deliver instruction and build technology skills as dictated by the Technology scope & sequence. 	<p>LCD projectors, Internet connectivity Regularly scheduled student access to computers required in either a shared space (lab / media center) or in the classroom.</p>
6-8	<p>Instructional time is dedicated to research and digital portfolio building.</p>	<p>LCD projectors, Internet connectivity Regularly scheduled student access to computers required in either a shared space (lab / media center) or in the classroom.</p>

Timeline for Curriculum Integration

The following timeline serves to address the integrated technology activity a student will participate in at Fortis Academy:

Grade Level	Integration Activity
K - 2	Classroom teachers are encouraged to lead technology integrated lessons when possible. They have access to resources on Curriculum Center enabling them to do so.
3 - 6	Classroom teachers will teach technology integrated lessons encompassing the Technology Scope and Sequence within their core academic curriculum. Option 1: By following the recommended technology lesson sequence for Open Court (found on Curriculum Center), the teacher will accomplish the Technology goals for that grade level within the framework of the Open Court Reading Curriculum. Option 2: Alternatively, teachers may follow the recommended technology lesson sequence termed "Cross-Curricula" and will meet the technology objectives for that grade level within the framework of the core curriculum.
6-8	Technology Literacy Focus <ul style="list-style-type: none">• Teacher Observation• Project Based Learning• Student Portfolios• Formal Assessments• Integrated technology Lessons

Technology's Role in the Academic Curriculum

- Specific technology-related skills are not treated equally at each grade level, the underlying philosophy regarding technology's role in the delivery of instruction is consistent across all grade levels.
- Teachers and students will have access to tools (such as computers, scanners, digital cameras, LCD projectors, etc.) and curriculum that integrates the use of technologies.
- All teachers will be expected to develop basic competencies in the use of teaching technologies (see Technology Staff Development section of this document) and to use these technologies appropriately to enhance the delivery of

instruction. Additionally, NHA will continue the development of curriculum that capitalizes on the multi-modal aspects of digital technology. (See **Appendix B** for details of the Technology Skills Scope & Sequence)

Online Access to Curriculum

- Internet-based technologies streamline the process for distributing of information. Through MyNHA website the Curriculum Center has access of a vast collection of curricular resources made developed for and aligned with the NHA curriculum. These resources include:
 - Unit plans
 - Lesson plans/Project based Learning Resources
 - Background readings
 - Presentations
 - Activities
 - Interactive Web sites
 - Rubrics/Assessments
 - Reading lists
 - Handbooks

Each resource in this collection is aligned with specific content standards. Many of the lessons are also aligned with specific technology-skill objectives.

Managing Curriculum with Technology

- To support the management of student performance information at Fortis Academy, NHA will develop and implement a tool set that will enable regular reporting of student performance based on assessment data.
- Teachers will be able to address student deficiencies by accessing the curricular resources that align with content standards and assessment tools. The use of information technology in this process is vital to the management of the data and reporting both teachers and school leaders need.

Staff Development

Current Situation

Staff development is a critical element in the successful implementation and integration of technology in the school environment. Fortis Academy understands the value of staff development and has dedicated the LTS to support this function.

Since staff development efforts are supported by the National Heritage Academies Service Center which provides ongoing professional development for all NHA staff members:

- New Teacher Orientation Conference – annually in August
- Regional Professional Learning Institutes – annually each fall and spring
- National Heritage Academy University - annually in July
- Specific curriculum workshops in reading, writing and technology
- School level professional development sessions, annual teacher skill survey, goals and evaluation of development process

Future

Staff Development Philosophy

Fortis Academy is committed to including a technology plan that includes a well-organized and comprehensive staff development component. This component will be aligned with the academic curriculum, educational philosophy of the school, and will focus on challenging each child to achieve.

The NHA technology staff development framework contains several component processes. The core curriculum for staff development activities is based on METS for Administrators and METS for teachers and ISTE (International Society for Technology in Education) standards.

- NHA provides a comprehensive Library and EdTech Professional Development Calendar each year.
- NHA has prepared a Teacher Development Survey to assess skill levels and determine school level professional development.
- Professional Development funds available for MACUL, MIEM and other conferences sponsored by the state of Michigan.
- Weekly newsletters with technology resources, updates and advancement announcements available to all staff members through the NHA network.

Date	Professional Learning Opportunity	Focus
8/15-17/06	NTO	NEW LTS Staff Training
08/23/06	AtSchool WebEx 3:30 -4:30 pm	Attendance and Gradebook
08/28/06	United Streaming Webinar 3:00-4:00 pm	Introduction to the Program
08/30/06	AtSchool WebEx 3:30-4:30 pm	Publications and Progress Reports
08/31/06	<i>Scholastic Keys*</i>	<i>Pilot Schools</i>
09/06/06	AtSchool WebEx 3:30 – 4:30 pm	Gradebook Advanced Features
09/13/06	AtSchool WebEx 3:30 – 4:30 pm	Calendar
09/14/06	IT Conference Call 3:30-4:30 pm	Technology Equipment Issues
09/15/06	TDS distributed to teachers	Teacher Technology Skills
09/15/06	First Meeting with Principal Arranged	Monthly Plan for Tech Integration and PD for staff
09/1-30/06	Integrated Technology and Information Literacy Lessons	Create portfolio of effective lessons to add to our NHA Technology Curriculum Resources
9/27/06	AtSchool WebEx 3:30 -4:30 pm	Q & A
10/3/06	Accelerated Reader Workshop – Toledo	How to!
10/11/06	Final AtSchool WebEx 3:30-4:30 pm	Gradebook
10/1-31/06	Integrated Technology and Information Literacy Lessons	Create portfolio of effective lessons to add to our NHA Technology Curriculum Resources
10/12/06	IT Conference Call In 3:30-4:30pm	Topic TBA
10/26-27/06	Regional Conference – Ohio, NY, NC, Indy	TBA
October	Second PD Meeting with Principal	Planning/Report
October	Arrange meeting of Library Committee Arrange meeting of Technology Planning Committee	Planning/Collaboration with Teachers
October	Tentative – Internet Safety Workshop	Preview for Students
October	Tentative – Collaboration with Teachers Workshop	Integrating Technology and Information Literacy Skills
11/2-3/06	Regional Conference – West Michigan	TBA
11/6-7/06	Regional Conference – East Michigan	TBA
11/16/06	IT Conference Call In 3:30 – 4:30 pm	Topic TBA
November	Integrated Technology and Information Literacy Lessons	Create portfolio of effective lessons to add to our NHA Technology Curriculum Resources
November	PD Meeting/Update with Principal	Planning/Report
12/14/06	IT Conference Call In 3:30-4:30 pm	Topic TBA

Professional Learning Opportunities – Calendar

To ensure the professional development of the teachers and the LTS at each National Heritage Academy. To provide professional development onsite at the school building, off site sponsored by the Service Center and technology such as Web-Ex conferences, IT Conference Calls and Video Conferencing opportunities.

Date	Professional Learning Opportunity	Focus
	Happy New Year!	
01/10/07	AtSchool WebEx 3:30-4:30 pm	Grade book and Progress Reports
01/17/07	AtSchool WebEx 3:30-4:30 pm – Please include Principals!!	Reports
01/18/07	IT Conference Call In “Join the Call” 1-866-613-5217 Access code: 7855462	Topic to be announced
01/15/07	<i>Schedule Meetings with Principal to evaluate PD</i>	<i>Staff technology literacy and student technology literacy</i>
01/24/07	AtSchool WebEx 3:30 – 4:30 pm	Attendance
01/31/07	AtSchool WebEx 3:30 – 4:30 pm	Newsletters
02/07/07	AtSchool WebEx 3:30 – 4:30 pm	Q & A
02/13/07	IT Conference Call In “Join the Call” 1-866-613-5217 Access code: 7855462	TBA
02/15-16/07	NORTH CAROLINA ONLY!! Technology Planning Conference	Greensboro, NC
February	Integrated Technology and Information Literacy Lessons	Create portfolio of effective lessons to add to our NHA Technology Curriculum Resources
03/15/07	IT Conference Call In “Join the Call” 1-866-613-5217 Access code: 7855462	
03/26-27/07	2nd Annual LTS/TF/LTA Spring Conference! Grand Rapids, Michigan	Variety of exciting sessions, save the date!
03/15/07	Continue to plan and evaluate Staff PD with Principals	Student achievement aligned with staff development assessment
March	Integrated Technology	Information Literacy Focus
04/19/07	IT Conference Call In 3:30-4:30pm “Join the Call” 1-866-613-5217 Access code: 7855462	Topic TBA
April	Integrated Technology	Enhancing the classroom learning activities
05/17/07	IT Conference Call In 3:30-4:30pm “Join the Call” 1-866-613-5217 Access code: 7855462	TBA

Connectivity & Infrastructure

Current Situation

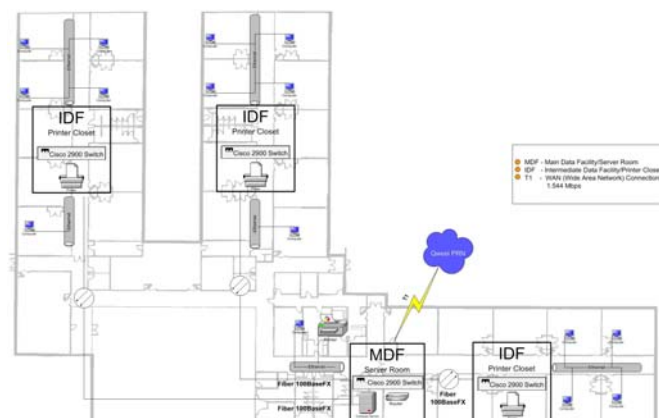
Through its affiliation with NHA, Fortis Academy benefits from the professional services and shared infrastructure provided to all NHA affiliate schools. This infrastructure has been developed to support the needs of the school while minimizing the cost by effectively managing the infrastructure lifecycle, accessing shared resources, and leveraging economies of scale.

The current infrastructure at consists of the following elements:

- 1) Local Area Network (LAN)
- 2) Wide Area Network (WAN)
- 3) Internet Access
- 4) Telephony

LAN Infrastructure

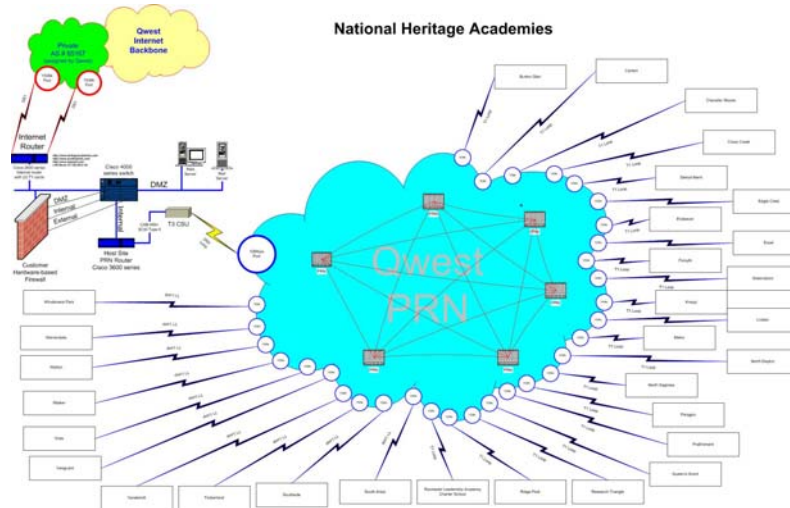
The active networking hardware operates at 100Mbps in a completely switched environment; providing 100Mbps access to each device on the network. The LAN utilizes TCP/IP exclusively. This component of the infrastructure is detailed more clearly in the diagram below:



The LAN was designed and installed by NHA's technology staff. All LAN management is handled through remote management tools by the NHA technical staff.

WAN Infrastructure

Fortis Academy receives many of its data services through its access to the NHA provided WAN. The WAN connectivity provides access both to NHA resources and to the Internet. The school currently has a T1 circuit provisioned through Qwest Communications. This circuit uses Qwest's Premium RPN service to connect securely to all other NHA sites in a "hub and spoke" topology. (see WAN diagram below)



WAN connectivity is monitored and managed remotely by the NHA technology staff

Internet Access

Internet access for Fortis Academy is obtained through the schools connection to the NHA WAN. All traffic emanating from the school is routed through a web filtering solution.

Telephony Infrastructure

Telephone access is provided in every classroom at Fortis Academy through 3Com's NBX voice over Ethernet system. The telephone system provides a high degree of functionality and individual voicemail. The NBX system includes a Web-based configuration tool employed by NHA's technology staff to provide support remotely for telephone issues. The specification for the NBX system our outlines in the table below:

Personnel

Current Situation

- NHA is committed to providing training and curriculum support at the school site.
- NHA has lowered the Total Cost of Ownership (TCO) of technology by centralizing technical support functions to its Grand Rapids office.

Instructional Technology Support

- In order to provide teachers with high-levels of support for the use of technology, Fortis Academy employs a full-time Technology Facilitator. The TF responsibilities include supporting the delivery of a technology-integrated curriculum and the delivery of staff development.
- The LTS is focusing on the effective use of technology in the learning environment.
- The school's LTS will assume the ownership and responsibility of the technology program within the school. Responsibilities will include oversight of building-level technology efforts, management of the staff-development program, and ongoing assessment of building needs. This person will work hand-in-hand with teachers to support the infusion of technology in the academic curriculum.
- The LTS will truly be a member of the school staff. The school leader will be responsible for hiring and managing the LTS. NHA is committed to providing professional development and program resources to the LTS and providing guidelines for the educational technology process at Fortis Academy.

Information Technology Support

- NHA provides technology support services to Fortis Academy through its NHA Information Technology team.
- This team provides centralized management of NHA's technological infrastructure, consults with school staff regarding technology needs and use, and sets IT policies for all NHA affiliate schools.
- The responsibilities of this team includes management of NHA's Wide Area Network (WAN), Local Area Networks (LANs), file servers, desktop and portable computers, Web (WWW) servers, application servers, software configurations, etc. In addition to managing this infrastructure, the IT team provides a technical support through a centralized help desk made accessible via telephone or through a Web browser.

Resources

Current Situation

Network Resources

- Technology that provides access and resources to students, teachers and the parent community.
- NHA Service Center support and school level support.

Software

Fortis Academy provides access to a variety of software resources supplied and supported by NHA's technology staff. All resources are selected to meet the academic needs of the students and enhance the instructional process.

The software resources offered as part of the model can be grouped into three distinct categories: (1) instructional software, (2) productivity software, and (3) management software.

Software Listing

- Destiny Library System, Graph Club, Timeliner, Inspiration, Encarta 2006, Finale Notepad, Type to Learn
- Bowmac REDI for School Emergencies, NWEA Test Taker, SIRS, Star Early Literacy, TestWiz
- Windows XP Professional, Microsoft Office 2003 Professional, Access, Excel, Outlook, PowerPoint, Publisher, Word, Adobe Acrobat Reader 7.0, McAfee Virus Scan, Internet Explorer, Lifetouch Image, Yearbook Forms Wizard

Publication of School Information

Fortis Academy envisions communications through the use of Internet technologies. NHA is equally committed to this goal by providing parent access to student information via At-School, a proprietary Web-based student information system. Moving forward, NHA has extended this functionality to include more school-related information (i.e. this School Technology Plan, calendars, publications, memos, etc.) and allow for parents to access it via the Web or to subscribe to content via E-mail. Fortis Academy will also begin to publish more content via the Fortis Academy school webpage developed by the Parent Ambassador Program.

Community resource use is encouraged, such as:

- Community and Regional libraries
- Intermediate School Districts, REMC's, and RESA's, student resources and professional development resources

- Subscription to United Streaming/Discovery Education on an annual basis
- Online media and video teleconferences

Hardware Recommendations

Current Situation

Fortis Academy takes advantage of its association with NHA for the procurement, installation, and lifecycle management of its hardware assets. NHA handles the installation and lifecycle management, for Fortis Academy. Finally, this arrangement with NHA allows the school to access shared professional services from NHA. By spreading the cost of these services across all NHA affiliated schools, the Total Cost of Ownership (TCO) for Fortis Academy is minimized.

School Assets

- Fortis Academy maintains a 1 computer per student computer ratio during assigned computer lab periods.
- Fortis Academy is equipped with a full complement of tier 1 networking equipment (Cisco or HP router and switches) as well as network attached workgroup printers located throughout the building and a multi-function printers/scanners/fax machine.
- For instructional purposes, Fortis Academy also employs CD projectors in each classroom throughout the facility.

Controlling TCO through Lifecycle Management & Standards

Hardware at Fortis Academy is procured, installed, and managed through its relationship with NHA. This arrangement allows the school to maintain its focus on the instructional uses of technology while relying on IT professionals at NHA to focus on issues of performance, scalability, reliability, TCO, licensing, etc.

NHA has adopted stringent hardware standards designed to ensure system reliability and performance while simultaneously minimizing support time and costs. These standards are enforced through acquisition and support policies and enable NHA to reach a 500:1 computer to technician ratio while maintaining the highest standards for support. Hardware standards address product continuity, total lifecycle cost, reliability, and performance. These criteria are applied to telephony hardware, desktop and portable computers, cabling, networking hardware, software, digital imaging devices, software, and management tools.

The following sections describe the current state of the hardware specified by NHA's hardware standards.

Telephony Hardware

- NHA provides telephone access in every classroom, for ready access to communications in the event of an emergency; the telephone also provides a critical link that supports the Parent-Teacher partnership.

Computer Hardware

- Personal computer: By providing and adhering to hardware standards, NHA's technicians are able to provide the highest service levels by making the computing environment consistent.
- When replacing existing computers, NHA is deploying thin client computers with an expected life of six years.
- Printers, networking components, and additional peripheral devices (scanners, digital cameras, etc.) are expected to exceed a four-year lifecycle and will be replaced at the end of their useful lives.
- NHA deploys technology:
 - Six years on the thin clients, without requiring any upgrades or maintenance.
 - Hardware is replaced through a scheduled process entitled "refresh" and provides for upgrades.
 - Each school is equipped with two (HP) servers with the primary purpose of storing data, managing network printing, and serving network enabled applications to client computers.
 - NHA's technology group revises the standard annually to match the latest technology.

Future Technology Purchases

- 1) Technology literate students with ready access to technologies that support the collection of information and the creation of content
- 2) Technology empowered teachers with access to technologies that enhance their instruction in powerful and dramatic ways
- 3) Technology-enabled administrators able to effectively manage school operations and monitor academic progress at the student, classroom, and school levels.

Fortis Academy will apply the following criteria to decisions related to hardware acquisition:

- 1) Instructional/curricular requirements
- 2) Operational requirements
- 3) State/industry standards
- 4) Support requirements (maintenance, remote management)
- 5) Total Cost of Ownership
- 6) Scalability
- 7) Return on Investment (ROI)

Measured using both

...methods that evaluate administrative efficiencies, productivity, and added value

and

...impact on student learning potential and curriculum delivery.

The establishment and application of these criteria will ensure the most effective use of technology and financial resources with the ultimate goal of improving student performance. By leveraging the schools financial resources through the use of leasing and re-thinking the use of externally acquired funding.

- Fortis Academy will review the technology equipment and curriculum yearly to insure continued progress toward student and staff technology competency and improved student achievement.
- Fortis Academy committed to the belief that every teacher should have access to technology that ties the use of technology with the delivery of instruction in a specific content area.
- Due to the sensitive nature of student information, the technology employed at each NHA school will be dependable, reliable, robust, and secure.
 - NHA's technology group will employ security best practices and currently has:
 - Scheduled security audits
 - group policies for desktop computer security,
 - policies for maintenance of security patches, employing encryption for the transmission of student data, implementations of secure technologies such as VPN, and PRN.

Technical Support Procedures

- All technical support issues are addressed through NHA's help desk. The technicians at this desk are available from 7AM – 7PM ET Monday – Friday. Trouble tickets can be opened via telephone or through a self-service Web interface. The technician connects to the computer remotely and demonstrates how to correct the problem to the customer.
- NHA will continue to seek more efficient methods for addressing technical support issues as both the technologies and the organization evolves.

Guidelines

Current Situation

National Heritage Academies and Fortis Academy has adopted several guidelines and procedures to ensure compliance with applicable state and federal guidelines for technology use in schools.

Current Procedures	Developing Procedures
<p>Deployment Procedures</p> <p>Help Desk Technical Support Request procedure</p>	<p>Fortis Academy is able to access ELL education technology resources.</p>
Current Guidelines	Established Procedures
<p>A hardware and software procurement policy that follows Information Resource Management (IRM) technology standards.</p> <p>CIPA compliant Acceptable Use Policy</p> <p>Data Integrity management</p> <p>Network security policy</p> <p>A policy for equipment maintenance, repair, replacement, and disposal</p> <p>A policy for equipment/materials donation</p> <p>A comprehensive policy for inventory control</p> <p>The media center is encouraged to post and practice guidelines as established by Hall Davidson (See Copyright below) and distributed by Tech Learning.</p>	<p>FERPA Laws and legislation is addressed in all handbooks and contracts.</p> <p>NHA does not participate in advertising and commercialism on school resources and equipment.</p> <p>Each NHA school has a school web page developed by the NHA Parent Ambassador Program.</p> <p>NHA provides Open House activities for parents and the community on a regular basis.</p> <p>NHA has established the Parent room at each school building and provides computer technology for parental use.</p>

Equipment / Materials Donation

- NHA is not accepting donated equipment that does not meet the definitions of NHA's IT architecture.

Data Privacy

- NHA must develop and publish a data privacy policy in compliance with the Family Educational Rights and Privacy Act of 1974 (The Buckley Amendment), 20 U.S.C. S123g and 34 C.F.R. Part 99.

Access to Information Policy

- NHA affiliated schools will have an Access to Information Policy as NHA develops Internet filtering mechanisms in accordance with Public Law 106-554, The Children's Internet Protection Act (CIPA) and the Neighborhood Children's Internet Protection Act. This policy must ensure adequate data retrieval capabilities for both students and staff and provide for legal requirements relating to Internet access. This policy will include disaster recovery.

Copyright

Copyright Protocol

Dated 11/09/06

- NHA employees who provide original written, musical or technical work for NHA, in the course of their employment, are bound by the terms and conditions of the Copyright Clause contained in the Employee Handbook.
- Vendors hired to create written, musical or technical work for NHA, should sign an Assignment of Copyright. The Assignment transfers all copyright ownership to NHA. An Assignment of Copyright can be obtained from Dani Phillips, Legal Services & Risk Manager (616.954.3090) or dphillips@heritageacademies.com.
- Classroom Teachers are given considerable advantage in using copyrighted materials but should be trained in proper citation requirements and the scope of materials that can be copied.
- NHA customer service center employees who use materials from an outside source must follow the copyright clause displayed within the body of that source (e.g. a copyright clause may require permission before using the materials). NHA may be held to a higher standard than a Classroom Teacher. All sources should be properly cited.

Copyright Training:

Step 1: Library Technicians should be the initial point of contact for questions regarding copyright use. The "*Copyright Guidelines for Administrators*" by Hall Davidson is an excellent resource for training (www.techlearning.com).

Step 2: The above referenced poster may be used for nonprofit purposes. Approval must be submitted to techlearning_editors@cmp.com.

Step 3: The "*Copyright Guidelines for Administrators*" should be displayed in the Library. Training of teachers should be conducted on-site and on a semi-annual basis.

Step 4: Copyright guidelines should be taught to students and volunteers by each individual teacher.

Step 5: Annual review should be conducted of the Technology Policy and Plan.

Step 6: Semi-Annual audits should be conducted of licensed and registration materials.

Budget

Current Situation

Budgeting Philosophy

- Technology expenditures at Fortis Academy, combine the fixed costs and the variable costs, and are fundamentally tied to being successful in fulfilling the vision of all students becoming computer literate by the eighth grade.
- Hardware refreshes cycle for managing the cost of technology throughout its lifecycle. All equipment and software supplied through NHA is being purchased. The refresh cycle for thin client computers is six years and the remaining equipment is four years. The technology department may decide that a certain piece of hardware is still architecturally viable after the refresh cycle and will continue to deploy it.
- Budget allocations for the LTS role at Fortis Academy are embedded in the school's personnel budget. This role is budgeted as a 1.0 FTE.
- Other budgeted items such as shared services provided by NHA (i.e. Internet access, WAN access, Help Desk) are accounted for in a billed services model. Other services such as access to Atschool / atschool.com, the curriculum center, development of the Technology Curriculum, support for the LTS/LTA are included as value-add services and are not billed or included in the school budget.

Future

Aligning the Budget

- The budgeting process for technology must not only account for acquisition of hardware, software, connectivity, and staffing, but it must also pay careful attention to the Total Cost of Ownership (TCO). NHA will continue to apply standards and IT best practices to reduce the TCO. NHA's policies and procedures ensure that software and hardware are utilized for their optimal life while staying current with the new technology advances.
- As evidenced in the **Infrastructure & Connectivity** section of the Technology Framework document, NHA is committed to developing systems, procedures, and support structures to improve technology's impact while reducing the TCO.

Fortis	Desktops/Laptops	115	Thin Clients	35
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Network Annual cost

Internet	\$4,563
School WAN	\$1,736
Service center WAN	\$646
PRN	\$3,473
Total	\$10,419

Access to Tech 2007-2008 2008-2009 2009-2010

Desktops/laptops	\$43,125	\$31,875	\$20,625
Thin clients	\$4,666	\$7,333	\$12,667
Thin client server	\$1,350	\$1,350	\$1,350
Total	\$49,141	\$40,558	\$34,642

Shareholder Annual cost

Phones	\$1,750
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Security Annual cost

Microsoft	\$7,500
Anti virus	\$1,380
Content filter	\$1,125
Spam	\$300
Total	\$10,305

Staffing Annual cost

Help desk	\$4,431
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Communication & Collaboration

Current Situation

- Through its association with NHA, Fortis Academy is able to take advantage of school for communication and collaboration. NHA has demonstrated a strong commitment to use technology for communications. This system is has become a hallmark of our internal operations and serves as a major communication vehicle both within the organization and externally with parents.
- Principal Meetings – NHA currently provides technology updates (covering report card processes, resources, reviewing policies procedures, instructional practices and general questions) at monthly principal meetings for all NHA affiliated schools.
- TF/LTS - Principal Meetings – TF/LTS at each school have periodic meetings with school leaders, school leadership teams, and at full staff meetings to discuss educational technology issues at their
- Classroom Planning – TF/LTS currently meet with individual teachers, small groups, or entire staffs to devise effective uses of technology with respect to the NHA curriculum.
- Regional TF/LTS Meetings – As the primary support structures within the school, TF/LTS must be well trained in the various aspects of their role. To support these efforts, NHA has committed resources that allow for regularly scheduled regional training sessions for TF/LTS.

Future

- WebEx and Video Conferencing capabilities currently being used and expanded capabilities in the future for collaborating with colleagues, parents and the community.
- *Intermediate School Districts* – Assist NHA with communication on state reporting regulations and access to state technology resources.
- *Universities & Colleges* – Local colleges and universities TEA may have opportunities to become part of pilot programs or benefit from access to the resources of the institutions.
- *Granting Agencies* – National Heritage Academies is able to collaborate with local foundations, institutions, or businesses to form partnerships.

Evaluation

Current Situation

- Evaluation of technology integration efforts at Fortis Academy
 - Monthly NHA Service Center Conference Calls with the Information Technology Department
 - Helpdesk assistance available on a daily basis
 - The LTS is primarily responsible for the implementation of the instructional and staff development portions of the technology plan.
 - The LTS and the school leader meet on a regular basis to assess the state of the technology efforts at the school.
 - On an annual basis, goals devised through the technology planning process are reviewed in the development of each school's annual action plan.

Appendix A

Student Responsibility: Parent/Student Technology Acceptable Use Policy

Printed each year in the Student Handbook
(reprinted from NHA Handbook 2006-2007)

Introduction

National Heritage Academies is pleased to offer students access to a computer network for creativity, communication, research, and other tasks and duties related to the NHA academic program.

Internet Use

The World Wide Web is a vast collection of resources readily available to any user on any computer connected to the Internet. NHA has lessons plans and software available that integrate the use of these resources.

Families must be aware that some material accessible via the Internet contains illegal, defamatory, inaccurate, or potentially offensive language and/or images. While the goal of the school is to use Internet resources to achieve educational goals, there is always a risk of students accessing other materials. We believe you should be aware of these risks.

Federal law states that computers connected to the Internet for student use must have a filtering technology in place for child safety and to satisfy e-Rate funding eligibility requirements.

NHA is in compliance with CIPA by deploying a Web content filtering product called Websense. Websense is hardware and subscription based product where NHA relies on the staff at Websense to categorize internet sites and then send updates to NHA site-based hardware. NHA blocks student access to all of the following categories of web sites:

Abortion

Adult Material, Including

- Adult Content
- Lingerie and Swimsuit
- Nudity
- Sex
- Sex Education

Internet Radio and TV
Peer-to-Peer File Sharing
Drugs, including
 -Abused Drugs
 -Marijuana
 -Supplements and Unregulated Compounds
Entertainment
Gambling
Games
Computer Security and Hacking
Image Servers
Internet Communication, including
 -Web-chat
 -Web-based E-mail
Militancy and Extremist
Alternative News Journals
Racism and Hate
Non-Traditional Religions and Occult
Shopping, including
 -Internet Auctions
 -Real Estate
Society and Lifestyles, including
 -Alcohol and Tobacco
 -Gay, Lesbian, and Bi-Sexual Interest
 -Personal Websites
 -Personals and Dating
Sport Hunting and Gun Clubs
Tasteless
Vehicles
Violence
Weapons

Also, any web site that is not one of the more than 13 million websites categorized by Websense is called Uncategorized, and is blocked from student access.

A process is in place for changing categorization of web sites through the education department at request of school staff.

CHILDREN'S INTERNET PROTECTION ACT (CIPA)

The Children's Internet Protection Act (CIPA) is a federal law enacted by Congress in December 2000 to address concerns about access in schools and libraries to the Internet and other information. For any school or library that receives discounts for Internet access or for internal connections, CIPA imposes certain requirements. In early 2001, the Federal Communications Commission (FCC) issued rules to ensure that CIPA is carried out.

What is required for CIPA compliance

- Under CIPA, schools and libraries subject to CIPA do not receive the discounts offered by the "E-Rate" program (discounts that make access to the Internet affordable to schools and libraries) unless they certify that they have certain Internet safety measures in place. These include measures to block or filter pictures that: (a) are obscene, (b) contain child pornography, or (c) when computers with Internet access are used by minors, are harmful to minors;
- Schools subject to CIPA are required to adopt a policy to monitor online activities of minors; and
- Schools and libraries subject to CIPA are required to adopt a policy addressing: (a) access by minors to inappropriate matter on the Internet and World Wide Web; (b) the safety and security of minors when using electronic mail, chat rooms, and other forms of direct electronic communications; (c) unauthorized access, including so-called "hacking," and other unlawful activities by minors online; (d) unauthorized disclosure, use, and dissemination of personal information regarding minors; and (e) restricting minors' access to materials harmful to them. CIPA does not require the tracking of Internet use by minors or adults.

(Source: www.fcc.gov)

How Websense Helps Schools and Libraries Comply with CIPA:

- Obscenity and Pornography Filtering - Websense allows schools and libraries to manage internet access to over 90 URL categories including Racism and Hate, Adult Material, Hacking and other topics pertinent to CIPA.
- Accurate Web Filtering - Websense offers the best-of-breed filtering database with over 13 million URLs.
- Filtering of Search Engine Images - Websense filters inappropriate images that can be found in search engine query results.
- Blocking of Spyware, Malicious Mobile Code and other Security Threats—With Websense's Security Premium Group and Web Security Suite, sites with worms, spyware, phishing and other threats to personal information, can be blocked, helping to meet CIPA's requirement for protection of a minor's personal information.
- Monitoring - Websense reporting tools, Explorer, Reporter and Real-Time Analyzer offer many different ways to monitor and report on the online activities of minors.
- Policy Management on a Per User or Per Group basis - Websense allows you to customize your internet policies based on a user or group. Therefore, you are able to set appropriate policies based on age or needs.

While there are risks, we believe that the benefits of using technology outweigh the disadvantages. Our teachers will be trained in the appropriate use of technology with students. We will make every effort to integrate the schools Moral Focus with lessons that utilize technology, but ultimately, parents and guardians of minors are responsible for setting and conveying the standards for students regarding the use of media and information sources at home and at school. Therefore, we support and respect each family's right to decide whether to allow their child to access the NHA computer network by having the

option of accepting the **Technology User Agreement and Permission Form**. However, by choosing not to accept the **Technology User Agreement and Permission Form**, your child will not have permission to use a computer or any device attached to the NHA computer network.

Responsibilities and Expectations

All use of computers, furnished or created data, software and other technology resources as granted to the employee and student body are the property of National Heritage Academies and are intended for business and educational use. Network users shall not access, or willingly allow another person to access, any network resource without proper authorization.

Students are responsible for appropriate behavior on the school's computer network just as they are in a classroom or on a school playground. Communications on the network are often public in nature. General school rules for behavior and communications apply. It is expected that users will comply with this policy and the rules set forth on the **Technology User Agreement and Permission Form**. The use of the network is a privilege, not a right, and may be revoked if abused. The user is personally responsible for his/her actions in accessing and utilizing the NHA computer network and/or the computer resources of the school.

General Rules of the Network

1. **Privacy:** Network storage areas may be treated like school lockers. National Heritage Academies reserves the right to monitor Internet traffic, retrieve and read any data composed, sent, received, and/or stored using our network and/or Internet connections. Network administrators may review communications to maintain system integrity and ensure that students are using the system responsibly.
2. **Storage Capacity:** Users are expected to remain within the allocated disk space and delete e-mail or other material, which take up excessive storage space.
3. **Proper Usage of Printing Resources:** Users are expected to use good judgment when printing on network printers. Paper, toner and color ink can be costly and excessive use of these resources is wasteful. Please proofread documents carefully before printing. Only print the part the document needed. In addition, users must obtain permission from their instructor before printing documents on the color printer. The color printer should only be used for work submitted as part of an assignment or project that requires color copy. All color printing should be done under direct supervision of the instructor overseeing the project.
4. **Illegal Copying:** Users should never download or install any commercial software, shareware, or freeware onto network drives or disks. Nor should users copy other people's work or attempt to intrude into other people's files. All copyright laws must be respected. A copy of the copyright laws pertaining to digital property can be obtained from the Technology Department.

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5. Inappropriate Materials or Language: Profane, abusive, pornographic and/or impolite language or materials is not permitted on the NHA computer network. Accessing materials not in line with the rules of school behavior is not permitted. A good rule to follow is never view, send, or access materials that you would not want your instructors and parents to see. Should students encounter any inappropriate material by accident, he/she should report it to their instructor immediately.
 6. Virus Protection: All data from outside sources will be scanned for viruses before use on any computer within the NHA network. Downloading/saving of non-work related attachments to e-mails, on any computer within the NHA network, is not allowed unless proper authorization is obtained from their instructor.
 7. Only either NHA purchased or specifically approved hardware, software or other technology may be used in the school building and/or on the network. Non-NHA standard equipment exposes significant security, virus and licensing risks. Any technology that does not meet the purchased and/or the approved test is prohibited.
 8. The School prohibits acts of cyber-bullying, which is a sub-set of bullying and involves the use of information and communication technologies, including but not limited to e-mail, cell phone and pager text messages, my-space.com, on-line social directories, instant messaging, defamatory personal Web sites, and defamatory online personal polling Web sites, to support deliberate, repeated or hostile behavior by an individual or group, that is intended to harm, intimidate or harass others on School time or School premises, or off School time or School premises if such acts defame, harm, threaten, harass, intimidate or bully other students or staff or the School.

Protection of Data

1. Every effort will be made to ensure the safety and integrity of your data using a daily backup system and other security measures. However, National Heritage Academies makes no warranties of any kind either expressed or implied, for the service it provides.
2. National Heritage Academies will not be responsible for any damage to your data. This includes loss of data resulting from delays, non-deliveries, mis-deliveries, or service interruptions caused by the NHA computer network, outside networks, and/or your errors or omissions.
3. Use of any information obtained via the Internet is at your own risk. National Heritage Academies is not responsible for the accuracy or quality of information obtained through the Internet or the NHA computer network.
4. Vandalism and/or the failure to abide with this policy and/or failure to abide with the rules set forth by the Technology User Agreement and Permission Form may result in cancellation of any or all network privileges. Vandalism is defined as any malicious attempt to harm or destroy any files and/or school hardware or software.

Installing Software

Network users are NOT authorized to install any software on any computers or computer related technology within the NHA computer network. Any software installed by anyone other than the network administrator will not be supported by NHA technicians and will be removed from the computer(s) on which it was installed. This is necessary to maintain network integrity and to follow all applicable software licensing agreements.

Publishing of Student Work and Photographs

From time to time, student work and photographs may be published on NHA's Intranet. This work may be published in a manner that is accessible on the World Wide Web. By agreeing to this policy, you are granting the right to use your child's work and/or photograph on an Internet accessible server.

Additional Information

1. Users are expected to be responsible, courteous and thoughtful when using school computers. Common sense should prevail. The use of the NHA computer network should be in support of education and research and consistent with the educational objectives of National Heritage Academies.
2. Teachers are expected to monitor student use of computers.
3. While Internet usage is intended for work-related activities, incidental and occasional brief personal use is permitted within reasonable limits with the instructor's permission.
4. Use of any other organizations' network(s) or computing resources via our network must comply with the rules appropriate for that network and the instructor's permission.
5. Transmission of any material in violation of any U.S. or state regulation is prohibited. This includes, but is not limited to: copyrighted material, threatening or obscene material, or unlawful material.

Enforcement of this measure is found in the following policy:

Student Internet usage is permitted only via the NHA network and only in the presence and supervision of a teacher, the child's parent or guardian, or other designated adult school personnel. All adults who monitor student activity on the Internet will be approved by the school, have read and signed the NHA Acceptable Use Policy detailed above, and be familiar with the safety/protection technology already installed on the NHA network.

National Heritage Academies Technology Curriculum Scope and Sequence

(May 2006)

for Teachers (Staff development Survey)

The following standards were determined and approved by NHA EdTech Team. These standards will be reviewed each year to determine appropriateness. A teacher's progression from novice to proficiency is marked on the sequence by the broad categories.

N	Novice: Introduction and overview of learning concepts/areas
B	Basic: Developed skills through planned training sessions
P	Proficient: Applied learning without direction
C	Technology Coach: Can train and assist others

Network Basics

		Years as a NHA Teacher	NTT	1	2	3	4	5
Login and Network:								
	NHA Technology Standards & Model							
	Log-in to the NHA Network	N	B,P	P	P	P	P	C
	Identify and use school network drives such as the Personal Z.; Universal & Project Drive(s)	N	B,P	P	P	P	P	C
	Contact the NH Help Desk (electronic tickets and telephone)	N	B	P	P	P	P	C
	Understand the process and purpose of the NHA Desktop Image	N	B	P	P	P	P	C
	Identify and use other drives (e.g. A: Floppy & D: CD; other...)		N,B	P	P	P	P	C
	Locate computer identification information (e.g. IP address & Serial Number)		N,B	P	P	P	P	C
	Reset a Student's Password		N	B	P	P	P	C
File Management:								
	Save and Retrieve documents (Name a file, choose a location and retrieve saved files)		N,B	P	P	P	P	C
	Distinguish between Save and Save As			N,B	P	P	P	C
	Create, save, open and move documents inside sub-folders			N	B	P	P	C
Printing:								
	Set a default printer		N,B	P	P	P	P	C
	Select various printers within the building		N,B	P	P	P	P	C
	Print only selected pages from documents		N,B	P	P	P	P	C
	Print duplex		N,B	P	P	P	P	C

Electronic Mail

	Create a New message; Add multiple recipients	N,B	P	P	P	P	P	C
	Reply to a message	N,B	P	P	P	P	P	C
	Forward a message	N,B	P	P	P	P	P	C
	Use the Address Book (Search for mail recipients)	N,B	P	P	P	P	P	C
	Add Attachments to E-Mail (e.g. pictures, documents)	N,B	P	P	P	P	P	C
	Open an Attachment from E-Mail	N,B	P	P	P	P	P	C
	Download an Attachment to an appropriate storage area (network drive)	N	B	P	P	P	P	C
	Organize E-Mail (create and use filing folders; role of Public Folders)		N,B	P	P	P	P	C
	Sort messages (by name, date subject)		N	B	P	P	P	C
	Delete E-mails (clean out your Mailbox)		N	B	P	P	P	C

	Create Distribution and Contact Lists		N	B	P	P	C
	Use the Outlook Web Access Calendar			N	B	P	C

AtSchool Student Information System

Atschool Teacher Modules:							
	Attendance		N,B	P	P	P	C
	Gradebook		N,B	P	P	P	C
	Progress Reports		N	B,P	P	P	C
	Report Cards		N	B,P	P	P	C
	Publications (newsletters)		N	B,P	P	P	C

Hardware

	Set up and use Mobil Laptop Cart		N	B	P	P	P	C
	Set up and use mobile Keyboarding System		N	B	P	P	P	C
	Set up and use the LCD Projector		N	B	P	P	P	C
	Basic Troubleshooting			N,B	P	P	P	C
	Use the Telephone System			N,B	P	P	P	C
	Use the Scanner			N	B	P	P	C
	Use the Digital Camera			N	B	P	P	C
	Use the digital Video Camera				N	B	P	C

Microsoft Software Applications

MS Word: Word Processing								
	Enter text into a new Word Processing document			N,B	P	P	P	C
	change the font and size of text			N,B	P	P	P	C
	Align text with alignment buttons			N,B	P	P	P	C
	Highlight text with the mouse			N,B	P	P	P	C
	change the format of text with bold, italics and underline			N,B	P	P	P	C
	Use the cut and paste commands			N,B	P	P	P	C
	Use the menu bar functions			N,B	P	P	P	C
	Insert and format Clip Art			N,B	P	P	P	C
	Use Spell Check			N,B	P	P	P	C
	Learn Keyboard short-cuts (Ctrl-V = Paste, etc...)				N,B	P	P	C
	Learn to use headers and footers				N,B	P	P	C
	Insert and format other digital images				N,B	P	P	C
	Word Processing Tasks - The Options Menu				N	B	P	C

MS Publisher: Desktop Publishing								
	Use the Publisher Menu Bar Functions			N,B	P	P	P	C
	Resize, group and move objects			N,B	P	P	P	C
	Link text boxes for text flow				N,B	P	P	C
	Add other digital images				N,B	P	P	C
	Add and Delete Pages				N,B	P	P	C
	Locate and use existing templates from the Template Wizard				N,B	P	P	C

MS Excel: Spreadsheets								
	Use the mouse to select and enter data into a cell			N,B	P	P	P	C
	Spreadsheet: Learn to add/subtract cell information			N,B	P	P	P	C

	Spreadsheet: Formatting (cells; columns; rows)		N,B	P	P	P	C
	Spreadsheet: Learn spreadsheet terms		N,B	P	P	P	C
	Spreadsheet: Learn to graph or chart		N,B	P	P	P	C
	Spreadsheet: Create basic formula functions			N,B	P	P	C
	Learn to use headers and footers			N,B	P	P	C
	Advanced Spread sheeting (Sorting, Filters, Freeze Panes; Copying Worksheets)				N,B	P	C

MS PowerPoint: Presentations

	Use a PowerPoint Presentation template		N,B	P	P	P	C
	Learn how to create and use a design template			N	B	P	C
	Learn how to create a basic presentation			N	B	P	C
	Learn how to format a presentation with slide transitions and animation			N	B	P	C
	Learn how to insert multimedia (sound, video, etc.) and hyperlinks			N	B	P	C

MS Access: Databases

	Know how to start a new database document				N	B	P,C
	Know database terms				N	B	P,C
	Know how to create fields and enter information into records				N	B	P,C
	Learn to sort the database based on one field				N	B	P,C
	Perform a search based on one or more fields				N	B	P,C

MS FrontPage: Web Page Design

	Learn how to select and use a design template					N,B	P,C
	Create a basic page with text, graphics and links					N,B	P,C

Graphics & Images

	Know how to use basic graphic tools such as MS Photo editor				N	B	P	C
	Know how to use basic painting/drawing tools such as MS Paint				N	B	P	C
	Know how to select specific areas of a painting or graphic				N	B	P	C
	Knows the difference between several graphic formats				N	B	P	C
	Printing to a page				N	B	P	C

Working with the Internet - World Wide Web

	Filtering @ NHA		N	B	P	P	P	C
	Manually enter an Internet Web Address (URL)			N,B	P	P	P	C
	Learn Internet Explorer button functions (back, forward, stop, etc.)			N	B	P	P	C
	Know basic internet terms			N	B	P	P	C
	Learn to build and organize a 'Favorites' list of most used websites			N	B	P	P	C
	Know how to create website shortcuts and hyperlinks in MS Word			N	B	P	P	C
	Know how to search and use keywords for information within a search engine program				N	B	P	C
	Know how to search for and download graphics/images within a search engine program				N	B	P	C

NHA Educational Software

	Know how to use Graph Club		N	N	B	P	P	C
	Know how to use Timeliner		N	N	B	P	P	C
	Know how to use Inspiration		N	N	B	P	P	C
	Know how to use MS Encarta		N	N	B	P	P	C
	Know how to use Type to Learn		N	N	B	P	P	C
	Know how to use Accelerated Reader		N	N	B	P	P	C

Education and Curriculum							
Online Resources							
	Know how to access Curriculum Center	N	B	P	P	P	C
	Know how to access and use NHA History Interactive materials	N	B	P	P	P	C
	Know how to locate Gradebook grading content.	N	B	P	P	P	C
	Know how to locate electronic versions of Curriculum Binders	N	B	P	P	P	C
	Know how to access, download and print lesson resources from Curriculum Center	N	B	P	P	P	C
	Know how to locate and use e-curriculum	N	B	P	P	P	C
	Know how to contribute lessons and resources to the NHA Curriculum Center			N	B	P	C
Technology Curriculum							
	Interpret and understand the NHA Technology Scope & Sequence of Content Standards	N	B	P	P	P	C
	Know how to access, download and print grade appropriate technology curriculum resources	N	B	P	P	P	C
	Deliver curricular instruction that incorporates the use of Technology		N,B	P	P	P	C
	Access and download resources to effectively assess and track student progress of technology skills		N,B	P	P	P	C
	Design lessons that incorporate the use of technology to enhance computer literacy in students.		N	B	P	P	C

Copyright Protocol

Dated 11/09/06

- NHA employees who provide original written, musical or technical work for NHA, in the course of their employment, are bound by the terms and conditions of the Copyright Clause contained in the Employee Handbook.
- Vendors hired to create written, musical or technical work for NHA, should sign an Assignment of Copyright. The Assignment transfers all copyright ownership to NHA. An Assignment of Copyright can be obtained from Dani Phillips, Legal Services & Risk Manager (616.954.3090) or dphillips@heritageacademies.com.
- Classroom Teachers are given considerable advantage in using copyrighted materials but should be trained in proper citation requirements and the scope of materials that can be copied.
- NHA customer service center employees who use materials from an outside source must follow the copyright clause displayed within the body of that source (e.g. a copyright clause may require permission before using the materials). NHA may be held to a higher standard than a Classroom Teacher. All sources should be properly cited.

Copyright Training:

Step 1: Library Technicians should be the initial point of contact for questions regarding copyright use. The "*Copyright Guidelines for Administrators*" by Hall Davidson is an excellent resource for training (www.techlearning.com).

Step 2: The above referenced poster may be used for nonprofit purposes. Approval must be submitted to techlearning_editors@cmp.com.

Step 3: The "*Copyright Guidelines for Administrators*" should be displayed in the Library. Training of teachers should be conducted on-site and on a semi-annual basis.

Step 4: Copyright guidelines should be taught to students and volunteers by each individual teacher.

Step 5: Annual review should be conducted of the Technology Policy and Plan.

Step 6: Semi-Annual audits should be conducted of licensed and registration materials.