

Strategic Technology Plan
Smith Vocational and Agricultural High School
2002 – 2007
(DRAFT - Updated June 2005)

Introduction: The technology plan at Smith Vocational and Agricultural High School is developing and evolving following recommended guidelines from the Department of Education called the “Local Technology Benchmark Standards for 2003”. The first part of this document details the Goals and the Implementation Strategies Progress Report. The Benchmark Standards Table follows with details based on the specific objectives.

Overall Goals:

1. To Provide Resources for Increasing Student Learning and Achievement.
2. To Provide Resources for Increasing State Reporting Requirements

Methods to reach overall goals:

1. Increase Access to Technology Tools
 - a. Increase and Improve School’s Hardware Inventory
 - b. Standardization of Software and Hardware
 - c. Ensure Network Resources are stable, capable of growth, and a disaster recovery plan are all well documented
2. Increase Training to Gain Value of Investment
3. Develop Technology Planning and Integration Team
4. Implement Innovative New Programs Utilizing Technology

Overview of the Technology Planning Process

Technology Plan Developed and Reviewed by Technology Coordinator, Administrative Team and High Schools That Work Technology Team consisting of teachers from across the curriculum.

Strategic Plan

Goals Accomplished in FY 04/05	Goals FY 05/06
1. Increase Access to Technology Tools	1. Increase Access to Technology Tools
A. Increase and Improve School's Hardware Inventory	A. Increase and Improve School's Hardware Inventory
<p>Over 100 new computers deployed last year: all with XP, Internet, MS Office 2003, GroupWise, File Maker, StarBase, and Antivirus software</p> <p>New Desktop PCs</p> <ul style="list-style-type: none"> • 16 Dell Desktops plus (1 teacher laptop) for Pre-Engineering Lab • 20 Dell Desktops for replacements 3 HP Desktops from Compaq as replacements • 6 Teacher Laptops (Sped and Plumbing) <p>Mobile Wireless Laptop Labs</p> <ul style="list-style-type: none"> • 18 laptops and wireless printer in mobile cart in C Building <p>Mobile Training Carts (4)</p> <ul style="list-style-type: none"> • LCD Projectors, laptop, and speakers • Mobile SmartBoard <p>Upgraded and refurbished PCs</p> <ul style="list-style-type: none"> • 47 Pentium IIIs/IIs (memory added but not all in use will reevaluate with Terminal Server Client) • (18 for Business Lab in A Building; 6 for Library; 23 for teacher and student deployment) <p>Mounted LCD Projectors, SmartBoard, and Electric Screen</p> <ul style="list-style-type: none"> • Library, Pre-Engineering Lab <p>Handheld PCs</p> <p>Machine Technology and Plumbing</p>	<p>Standardized Software licenses will continue to be a goal for all new computers and older ones on campus also.</p> <p>New Desktop PCs</p> <ul style="list-style-type: none"> • 18 Dell Desktops for CAD Lab and teachers <ul style="list-style-type: none"> ○ Recycle and re-image CAD Lab PCs to Business Lab • 20 Dell Desktops for student use in Kurzweil Project <ul style="list-style-type: none"> ○ 5 mini-lab classrooms ○ Student access in classrooms • ? Laptops for Teacher Use <ul style="list-style-type: none"> ○ Principal ○ Carpentry ○ 2nd Pre-Engineering Teacher ○ New positions <p>Terminal Server Connection PCs</p> <ul style="list-style-type: none"> ○ 45 Pentium III/IIIs to be connected for student and teacher use (includes PCs from Business Lab) <p>New Software Projects</p> <ul style="list-style-type: none"> ○ Kurzweil Assistive Technology ○ Project Lead the Way 2nd course ○ TestWiz Network Access ○ Winnebago Network Access (Library software) <p>SmartBoards, LCD Projectors for following shops:</p> <ul style="list-style-type: none"> • Auto Body • Auto Mechanic • Health Technology • Agriculture • others <p>Digital Cameras</p>

<p>B. Implement a Centralized Standardization Strategy</p>	<p>B. Implement a Centralized Standardization Strategy</p>
<ul style="list-style-type: none"> • Imaging PCs time saving for setup and training • Software versions increases compatibility • Backup to Network and Antivirus Protection • Hardware Inventory and Software Licensing Tracking Developing • Printers/Copiers centralize 	<ul style="list-style-type: none"> • Continue Imaging new PCs • Build Image for Premios • Continue to Develop Inventory System
<p>C. Ensure Network Resources are stable, capable of growth, disaster recovery plan developed and all well documented</p>	<p>C. Ensure Network Resources are stable, capable of growth, disaster recovery plan developed and all well documented</p>
<ul style="list-style-type: none"> ○ Server Stability <ul style="list-style-type: none"> • New Mail Server installed with Web Access and in-house GroupWise stability greatly enhanced. • All file servers upgraded to latest Novell versions and protected by Antivirus Software • Preventive Solution to Spy ware using Adaware and Deep Freeze • File Maker Server installed for Online Curriculum Project • Memory upgrade completed for File and Print Server • Ghost Server built • Internal DNS and DHCP range modified ○ Infrastructure Upgrades <ul style="list-style-type: none"> • Older network hubs replaced by faster switches in all buildings ○ Network Documentation <ul style="list-style-type: none"> • Servers, switches, printers documented • Student user templates created • Student and staff network accounts utilized and resetting of password system in place • Limited Space Quotas on network • Network Backup of Health and Winnebago 	<ul style="list-style-type: none"> ○ Server Stability <ul style="list-style-type: none"> • Air Condition Server Room • Terminal Server built and client machines being rolled out • Review oldest file server replacement ○ Infrastructure Upgrades <ul style="list-style-type: none"> • Comcast Cable for redundant connection • Content filter • Router for IT Shop • Research Spam Software • Future Development Needs <ul style="list-style-type: none"> • Physical protection and security assessments • Increase utilization of shared network drive space • Disaster recovery plan • Documentation of all network policies • Documentation of Specialized Applications <ul style="list-style-type: none"> • Horizon (Cafeteria) • Health (School Nurse) • Winnebago (Library) • SolidWorks, CamWorks (CAD) • Mitchell Online (Auto body) • TestWiz • SimsViewer • DOE Portal

<p>2. Increase Training to Gain Value of Investment</p>	<p>2. Increase Training to Gain Value of Investment</p>
<p>Identified Training Needs with Surveys and TSAT: Teachers and Support Staff</p> <ul style="list-style-type: none"> • Network Resources: <ul style="list-style-type: none"> ○ Shared Folders and Files ○ Email • Data Integrity - Input and Reporting Outcomes <ul style="list-style-type: none"> ○ Munis ○ StarBase ○ Test Wiz • General Applications <ul style="list-style-type: none"> ○ MS Office Suite (Word, Excel, PowerPoint, Access, Publisher) • Specialize Equipment <ul style="list-style-type: none"> ○ Laptop Cart ○ Digital Cameras ○ Smart boards ○ LCD /Overhead Projectors ○ Alpha Smarts ○ Scanners ○ Training was offered in sessions that included; Training of Trainers, One to One, Small Groups ○ After school, Professional Days, and As needed, ○ At school labs, classrooms, offices, and offsite ○ Professional Development Team Integration 	<p>Kurzweil Project: A full day, hands-on training for the Kurzweil Software will be scheduled for the beginning of school. Staff trained will meet in on going training groups to further integrate the software to other classrooms.</p> <p>Orientation New Staff: Novell login, email and StarBase training will be given to new staff as part of orientation.</p> <p>Technology In service Training will be planned following the success of last years full day's training. Mini trainings will be offered after school and within the class day.</p> <p>Curriculum Online Class: Training for teachers which could be college credit for submitting their curriculum using the online database software.</p>
<p>A StarBase and separate Munis Crystal Report Writing Training Day was offered for administrative support staff in the summer of '04. Teachers taught other teachers the use of LCD projectors, mobile carts, and SmartBoards for classroom integration. Para professional staff accessed online training a testing software.</p> <p>The Following Training Provided in Professional Development Technology Training Day January 28, 2005</p>	

Student Data: <i>Using StarBase for Attendance, Deficiencies, Grades, Grade Book, SIMS Viewer, and Phone Master</i>	
New Copiers, Printers, and Scanners: <i>How to use new equipment most efficiently.</i>	
Telephones: <i>Understanding optional phone features?</i>	
Electronic Purchase and Work Orders: <i>Increasing efficiency</i>	
Groupwise: <i>Making the most of this program—i.e. attachments, address books, calendar, web access, distribution lists.</i>	
File Management: <i>Accessing files on shared or personal network drives and the impact of Deep Freeze on managing files on the local drive.</i>	
TestWiz Analysis: <i>Using this tool to analyze the strengths and weaknesses in Math and ELA based upon the performance of Smith School students on the MCAS.</i>	
MCAS Mentor Professional Development Tool: <i>Learning how open-response questions on the MCAS are scored.</i>	
PowerPoint: <i>Enhancing the presentation of information.</i>	
Digital Camera: <i>Learn essential techniques for capturing, editing, and using digital images in the classroom.</i>	
LCD Projectors and Smart Boards: <i>Integrating technology</i>	
Microsoft Online Tutorials: <i>How to help yourself.</i>	
Wireless Laptops: <i>How to use the wireless, mobile lab at Smith Vocational and Agricultural High School.</i>	
Handhelds and probes: <i>Handhelds aren't just for appointments. How are other teachers using these tools to bring technology into their classrooms?</i>	
Kurzweil: <i>Text to speech software that may be used to strengthen study skills, enhance reading, and may even be used by some students in MCAS testing.</i>	
Assistive Technology: <i>Alpha Smart in your classroom?</i>	
Movie Maker: <i>Take a presentations to a whole new dimension using Movie Maker..</i>	
Web Resources for Teachers: <i>Lesson planning, research</i>	
Workshop for Beginners: <i>Intro to anything you need to know!</i>	

<ul style="list-style-type: none"> ○ Student Training Needs were identified in the following areas: <ul style="list-style-type: none"> ● Kuder Assessment ● Electronic Portfolios ● Assistive Technology ● Network Resources: ○ Shared Folders and Files 	<ul style="list-style-type: none"> ○ Student Training Needs were identified in the following areas: <ul style="list-style-type: none"> ● 8th Grade MCAS scores ● Incoming Technology Assessment ● 12th Grade Technology Assessment
3. Develop Technology Planning and Integration Team	
<ul style="list-style-type: none"> ○ Utilize High Schools That Work Team Structure ○ Recruit more members reflecting diverse needs of school ○ Outsource for additional technical staffing needs <ul style="list-style-type: none"> ● Team up with city and Northampton High tech resources ● Summer college student help 	<ul style="list-style-type: none"> ● Continue with High Schools That Work Technology Team monthly meeting. Quarterly meet with Tech Administration team to adjust and reevaluate plan. ● Hire a new .5 FTE Technical Assistant
4. Implement Innovative New Programs Utilizing Technology	
<ul style="list-style-type: none"> ▪ Pre- Engineering Course ▪ Online Curriculum ▪ New Web Site Developed with college coop student and implementation plan for ongoing updates ● Online Calendar for Student and Faculty Activities and Lunch Menu ● Facility Use website for city intranet ▪ Printer/Copier/Scanner Deployment ▪ Implemented PhoneMaster Software to automatically call parents of absent students 	<ul style="list-style-type: none"> ● Pre-Engineering Project Lead the Way Class 2 ● Online Curriculum on the Web ● Plan for next and continual web updates ● Research Riso Test Analysis ● Research Assessment and Tutoring Center ● Research Student Activity Accounting Software