



Technology Curriculum Year-End Goals for Students and Faculty – 2009-2010

At The Wilson School , we realize that this generation of learners will need to have highly developed skills in many technological areas. We are integrating technology in the classroom and the computer lab for EVERY grade level at Wilson. Children interact with the Smart Boards in the classroom daily and come to the lab for individual computer time and lessons weekly. Although the curriculum uses the NJDEA Technology Literacy 8.1 Standards as a guideline, it is not limited to them. The **students' curriculum** focuses in several areas:

- **Basic Computer Operations and Concepts** - Technical vocabulary, knowledge of computer parts and usage, basic features of an operating system; filing systems, program access, printers, navigation, keyboard and mouse skills. Basic computer troubleshooting.
- **Software Productivity Tools** - Word Processing, Desktop Publishing; Spreadsheets; Presentation; Graphic Organizers, Image/Multimedia Design, Web Design
- **Internet Literacy /Communication Tools** - Browsers, Search Engines, Online Database/Research Access, Webquests, Email, Blogs, Video Conferencing, Web 2.0 - interactive web use, wikis, blogs, messaging
- **Internet Safety and Acceptable Use** - Safe and appropriate use of Internet Resources, Netiquette, Acceptable Use Policies, Internet Safety Contracts, Intellectual Property

Year-end Goals by Grade

(Please note that the lessons are differentiated by grade, but the goals are in 2 grade increments.)

Grade Level	Focus	Lessons	Software / Hardware	Environment

Pre-k and Kindergarten Plan	Computer access Input/Output Devices Navigation Media/content integration Acceptable Use	Introduction to computer parts, names, functions Mouse and keyboard fun Scholastic internet activities Computer lab rules	Smart Boards, Multimedia desktop computers, Digital Cameras, LCD projectors Kidpix, Kidspiration, Scholastic Keys, Type to Learn Internet based activities Brainpop	Daily student interaction with smart boards to access content on the internet, lessons, concepts, movies, music, and more. Weekly lab lessons coordinated with the subject content areas to introduce and reinforce key skills Appropriate behavior/respect
Pre K - K Goal	Allow students to become familiar with the smart board, computer lab. Appropriate behavior/respect/operation of the equipment. Access and interact with internet activities, master mouse skills. Integrate key pre-k concepts into technology lessons. Integrate multimedia into lessons. Intro to keyboard layout.			
1st and 2nd Plan	Reinforce Pre K -K learning Internet Access/Research Keyboarding, Navigation Safe computer Usage	Internet Navigation Keyboard skills Word processing/presentation introduction Internet Safety	Internet activity lessons/basic search Type to Learn Scholastic Keys: maxwrite, maxshow Kidpix, Kidspiration Internet Safety Lessons	See Kindergarten
1st and 2nd Goal	Reinforcement of all the Kindergarten skills in addition to adding some beginning word processing, presentation introductions using templates. Kidpix and Kidspiration are also used to reinforce typing and text-to-speech coordination of early reading skills. Basic drawing with mouse reinforces mousing and navigation skills. Also, Students should be aware of the internet, how to access a browser, and why they need supervision on the internet.			
3rd and 4th	Computer Technology, Parts, Usage	Searching Techniques, Browser Interaction	Browsers, Multimedia Resource Lessons	Same as above

Plan	<p>Desktop Management/File Management/Printing</p> <p>Internet Searching/Researching</p> <p>Productivity Tools/Multimedia</p> <p>Internet Safety</p>	<p>Online Databases-libraries-encyclopedias</p> <p>Operating System Fundamentals</p> <p>Keyboarding</p> <p>Word Processing/Publishing from template, and original documents. Editing, Formatting, Inserting.</p> <p>4 Slide Presentation from template and original design.</p> <p>Intro to Spreadsheets, pictographs, charts</p> <p>More Extensive Internet Safety Lessons, plagiarism, citing sites</p>	<p>Windows Functionality</p> <p>Type to learn and other keyboard practice</p> <p>Scholastic keys and MS office:</p> <p>Maxwrite, Maxshow, MaxCount, Word, Publisher, Powerpoint, Excel</p> <p>Graphic Organizers/Webbing Kidspiration</p> <p>Kidpix, paint image software</p> <p>Netsmartz, cybersmart, etc. internet safety curriculum</p>	<p>with addition of some multimedia tools</p>
3rd and 4th Goals	<p>Reinforcement of all previous skills. Additional of extensive internet usage and safety skills. Webquests, integrated research. Progress with keyboarding. Progress on word processing skills from updating simple templates to creating original documents. Improvement of editing, formatting, inserting etc. techniques. Introduction of spread sheeting and charting - progressing from pictographs to number analysis. Editing spreadsheet templates.</p>			
5th and 6th Plan	<p>Mastery of earlier skills and reinforcement of intermediate skills above.</p> <p>Additional depth in all productivity tools, internet safety, communication and usage.</p> <p>Internet responsibility contracts.</p> <p>Presentation</p>	<p>More Extensive Internet Lessons involving advanced searching/plagiarism/citations/internet safety contracts. Age appropriate life lessons for the internet.</p> <p>Proficiency in keyboarding</p> <p>Original document creation in Word Processing /Publishing -</p>	<p>Age appropriate Internet Safety Lessons.</p> <p>Internet Research, plagiarism</p> <p>Keyboarding practice intermediate</p> <p>MS Word, MS Publisher, MS PowerPoint, MS Excel</p> <p>MS Digital Imaging and other photo projects</p>	<p>As above, additional multimedia usage and creation and integration</p>

	development Multimedia tools	Letters, Publications, Newspapers, Magazines Original work with Presentations with animated effects and interactive media Writing workshops with graphic organizers / webbing Original work and templates with spreadsheets, graphs, formulas, functions Using multimedia equipment and editing images/graphic creation	Kidspiration/Inspiration graphic organizers and writing tools Digital cameras/ digital video cameras	
5th and 6th Goals	Competence in using computer hardware and software to complete clearly defined tasks. Still require great deal of explanation and examples, but are able to follow directions and complete the projects. Competency extends to typing, browsers, searching, researching, use of productivity tools to complete assigned projects either with a template, or with a classroom model. Additional introduction to multimedia editing, creation and software for processing these. Emphasis on Internet Safety for tweens.			
7th and 8th Plan	Mastery of previous skills and acquisition of skills needed to progress in the education and business worlds. Including Internet Usage and Communication and Productivity Tools. Internet Responsibility and Safety for Teenagers Multimedia, Web creation	Computer Hardware and software troubleshooting Advanced Searching techniques, Database research, Intellectual Property <i>MS Office integrated</i> projects requiring multiple steps, multiple skills and integration of more than one type of productivity tool. Integrating and creating multimedia projects. Internet Safety Pledges	Age appropriate Internet Safety Lessons. Internet Research, plagiarism Keyboarding practice intermediate MS Word, MS Publisher, MS PowerPoint, MS Excel MS Digital Imaging and other photo projects Inspiration graphic organizers and writing	As above, additional multimedia usage and creation and integration More emphasis on independent usage of equipment

		and Parent Letters Extensive presentation creation and delivery Work with internet communication software - Email, Blogs, Web development, Image editing Movie creation, video conferencing	tools Digital cameras/ digital video cameras Communication and Web Development Software Multimedia development software, graphic software	
7th and 8th Goals	Movement from using templates to creating original documents. Self-Reliance and ability to problem solve become more important. Ability to determine which technology tool is best for which project both in school and at home. Demonstration of knowledge about internet dangers is critical. Taking responsibility for internet actions. Ability to effectively communication in digital world via email, msgs, video, presentation, charting, word processing etc is the desired outcome.			

The Wilson School's dedication to technological development of its students is aided by the following ongoing and recently completed activities:

- **Formal and Informal Teacher Training** on a variety of topics including Integration of Technology into classroom lessons, development of teachers' personal and business computing competencies, introduction and development of new educational hardware and software. This training is conducted by internal staff trainers and external vendors.
- **Installation of an Internet Filtering Server** - This was completed as a means of safeguarding our children as they use the internet for research and learning activities.
- **New Computer Lab** - We recently upgraded the lab with 12, multimedia laptops, and Smart Board is on order to complete the upgrade.
- **New Equipment** - each classroom now has a Smart Board, Software, LCD multimedia projectors and computer workstations or laptops. (New smart boards and projectors were just installed!)
- **Teachers' homework websites** were added to <http://www.thewilsonschool.com/Teachers> to provide an online communication tool between parents, students and teachers. Teachers can be instantly emailed questions or concerns.

