20 Technology Skills Every Educator Should Have

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During the last 15 years, we in education have moved at light speed in the area of educational technology. Whether you are involved in higher ed, secondary ed, elementary ed, or special ed, all of us find it difficult to put up with fast-moving computer-based technology. Not since the introduction of the blackboard did pieces of equipment make such a difference in how we teach. Today, not only do we use computers, but wireless laptops, and tablet PCs. In addition, we have the World Wide Web, scanners, CD burners, digital cameras and digital video cameras, PDAs, as well as video and DVD players. And most educators today, including video, e-mail, desktop conferencing, online programs such as WebCT and Blackboard, and conferencing-to-teach. Thus, it is no longer acceptable for educators to be technology illiterate.

With that in mind, here is a comprehensive listing of the technology skills that every educator should have. Computer and associated technologies continue to change and evolve, educators must continue to learn in their work. Today that includes continued time and effort to maintain and improve their technology skills (some educators do not want to admit).

Here are 20 basic technology skills that all educators should now have:

1. Word Processing Skills
2. Spreadsheets Skills
3. Database Skills
4. Electronic Presentation Skills
5. Web Navigation Skills
6. Web Site Design Skills
7. E-Mail Management Skills
8. Digital Cameras
9. Computer Network Knowledge Applicable to your School System
10. File Management & Windows Explorer Skills
11. Downloading Software From the Web (Knowledge including eBooks)
12. Installing Computer Software onto a Computer System
13. WebCT or Blackboard Teaching Skills
14. Videoconferencing skills
15. Computer-Related Storage Devices (Knowledge: disks, CDs, USB drives, zip disks, DVDs, etc.)
16. Scanner Knowledge
17. Knowledge of PDAs
18. Deep Web Knowledge
19. Educational Copyright Knowledge
20. Computer Security Knowledge

1. Word Processing Skills

Educators should be able to use some type of word processing program to complete written tasks. See the following Web sites for helpful information and tutorials.

- University of Alberta: Online Word Processing Tutorials
  www.quasar.ualberta.ca/edpy202/tutorial/wptut/wpweb.htm
  This page is a collection of Internet links that provide word processing instruction.
- Tutorialfind.com: Word Processing Tutorials
  www.tutorialfind.com/tutorials/computerbasics/wordprocessing
  This site has a number of word processing tutorials, and is also a portal for a variety of other tutorials.
- 2Learn.ca Education Society: Word Processing Teacher Tools
  www.2learn.ca/teachertools/Wordprocessing/wphow2.html
  Word processing tutorials for Microsoft Word, Corel WordPerfect, and Appleworks.
- Essential Microsoft Office 2000: Tutorials for Teachers: Word
  www.pitt.edu/~poole/Officeindex2.html
  Essential Microsoft Office 2000 tutorials from the University of Pittsburgh's Bernie Poole and Associates.

2. Spreadsheets Skills

Educators should be able to use some type of spreadsheet program to compile grades and chart financial data. See the following Web sites for helpful information and tutorials on these skills.

- University of Alberta: Online Spreadsheet Tutorials
  www.quasar.ualberta.ca/edpy202/tutorial/spreadsheet/spreadsheet.htm
  This page is a collection of Internet links that provide instruction on using spreadsheet programs.
- Teachnology: Spreadsheets Teaching Theme
  http://teachers.teach-nology.com/themes/comp/spreadsheets
  Spreadsheet tutorials from Teachnology, the Web Portal for Educators.
- Excel in TutorGig Tutorials
  www.tutorgig.com/showurls.jsp?group=531&index=0
  Spreadsheet tutorials from TutorGig.
- Essential Microsoft Office 2000: Tutorials for Teachers: Excel
  www.pitt.edu/~poole/Officeindex2.html
  Essential Microsoft Office 2000 tutorials from the University of Pittsburgh's Bernie Poole and Associates.
- Black Hills State University: Technology for Teachers: Spreadsheets
  www.bhsu.edu/education/edfaculty/ltturner/Technology_for_Teachers.htm#Spreadsheets
  A listing of various Web sites for spreadsheet tutorials and related information.
3. Database Skills

Educators should be able to use some type of database program to create tables, store and retrieve data. See the following Web sites for helpful information and tutorials on these skills.

- **University of Alberta: Online Database Tutorials**
  www.quasar.ualberta.ca/edit202/tutorial/database/database.htm
  Database tutorials from the University of Alberta.

- **Technology and Telecommunications for Teachers: Database Tutorial**
  www.k12.hi.us/~tethree/01-02/tutorials/db
  This tutorial was created by the Advanced Technology Research Branch of the Hawaii Department of Education to provide supplemental productivity tool information to teachers enrolled in the Technology for Teachers (T3) Program.

- **Microsoft Access Database Tutes**
  www.rd-robotics.com/accesscommunity/tutes
  Microsoft Access database tutorials from R&D Robotics.

- **Essential Microsoft Office 2000: Tutorials for Teachers: Access**
  www.pitt.edu/~poole/Officeindex2.html
  Essential Microsoft Office 2000 tutorials from the University of Pittsburgh's Bernie Poole and Associates.

- **Black Hills State University: Technology for Teachers: Databases**
  www.bhsu.edu/education/edfaculty/lturner/Technology_for_Teachers.htm#Databases
  A listing of Web sites for database tutorials, help and related information.

4. Electronic Presentation Skills

Educators should be able to use electronic presentation software to create and give electronic presentations. See the following Web sites for helpful information and tutorials on these skills.

- **PowerPoint in the Classroom**
  www.electricteacher.com/tutorial3.htm
  A list of commonly tasks used while working in PowerPoint, and a step-by-step guide on how to use it.

- **University of Victoria: PowerPoint I**
  www.educ.uvic.ca/compined/Level1/ppoint/ppoint1.htm
  PowerPoint tutorials and information from the University of Victoria in British Columbia.

- **Steven Bell's PowerPoint and Presentation Skills Resource Page**
  http://staff.philau.edu/bells/ppt.html
  A list of resources that provide information and technical assistance for developing PowerPoint presentations, as well as information on designing computer-based presentations and multimedia content on the Web.

- **University of California: Presentation/In-Class Software Tutorial & Guides**
  www.uctltc.org/toolbox/guides/presentation.html
  Presentation software tutorials and many other related tutorial categories from the University of California Regents.

- **University of Alberta: Online PowerPoint Tutorials**
  www.quasar.ualberta.ca/edpy202/tutorial/PowerPoint/PowerPoint.htm
Online PowerPoint Tutorials from the University of Alberta.

- **Essential Microsoft Office 2000: Tutorials for Teachers: PowerPoint**
  [www.pitt.edu/~poole/Officeindex2.html](http://www.pitt.edu/~poole/Officeindex2.html)
  Essential Microsoft Office 2000 tutorials from the University of Pittsburgh's Bernie Poole.

### 5. World Wide Web Navigation Skills

Educators should be able to navigate the World Wide Web and search effectively for data on the following Web sites for helpful information and tutorials on these skills.

- **Black Hills State University: Search Engines**
  [www.bhsu.edu/education/edfaculty/lturner/Search%20Engines.htm](http://www.bhsu.edu/education/edfaculty/lturner/Search%20Engines.htm)
  An educational Web portal that provides links to search engines and searching techniques.

- **Finding Information on the Internet: A Tutorial**
  [www.lib.berkeley.edu/TeachingLib/Guides/Internet/FindInfo.html](http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/FindInfo.html)
  This tutorial presents the substance of the Internet workshops offered by the Teaching Library, California at Berkeley.

- **Searching the Web in the Yahoo! Directory**
  [http://dir.yahoo.com/Computers_and_Internet/Internet/World_Wide_Web/Searching_th](http://dir.yahoo.com/Computers_and_Internet/Internet/World_Wide_Web/Searching_th)
  A listing of the top search engines and directories categorized by Yahoo!

- **Online Writing Lab: Searching the World Wide Web**
  [http://owl.english.purdue.edu/handouts/research/r_websearch2.html](http://owl.english.purdue.edu/handouts/research/r_websearch2.html)
  Purdue University's Online Writing Lab Searching the Internet tutorial.

- **How to be a WebHound**
  [www.mcli.dist.maricopa.edu/webhound/](http://www.mcli.dist.maricopa.edu/webhound/)
  The WebHound site shows you how to use various Web search tools.

- **ICYouSee: T is for Thinking**
  [www.ithaca.edu/library/training/think.html](http://www.ithaca.edu/library/training/think.html)
  A guide to critical thinking about what you see on the Web.

### 6. Web site Design Skills

Educators should be able to design, create, and maintain a faculty/educator Web page/site. See the following Web sites for helpful information and tutorials on these skills.

- **The WWW Help Page**
  Web Page Design Help from Kevin Werback, a portal type help site.

- **Netscape’s Resources for Creating Web sites**
  Resources for Creating Web sites page from Netscape.

- **Teachers.Net Homepage Maker**
  [http://teachers.net/sampler](http://teachers.net/sampler)
  Teacher Web site creation - interactive from Teachers.net.

- **Web Adventure!**
7. E-Mail Management Skills

Educators should be able to use e-mail to communicate and be able to send attachments and create links for online resources. Visit the following Web sites for helpful information and tutorials.

- **Computer Skills Tutorials**
  [http://psychology230.tripod.com/canyons_online/id4.html](http://psychology230.tripod.com/canyons_online/id4.html)
  E-mail tutorials from Online Learning at the College of the Canyons

- **Web Site 101: Small Business E-Mail Tutorial**
  [www.Web site101.com/email_e-mail](http://www.Web site101.com/email_e-mail)
  E-mail tutorials and e-mail basics from Web site101.com

- **UNITAR’s PATIT Training Program: E-Mail Basics**
  [www.un.int/unitar/patit/onlinetutorials/emailbasics.htm](http://www.un.int/unitar/patit/onlinetutorials/emailbasics.htm)
  E-mail basics from UNITAR

- **VisualTutorials.Com**
  [http://visualtutorials.com/email.htm](http://visualtutorials.com/email.htm)
  E-mail tutorials from VisualTutotiral.com

- **The Animated Internet: How E-Mail Works**
  [www.learnthenet.com/english/section/email.html](http://www.learnthenet.com/english/section/email.html)
  E-mail tutorials from Learn the Net.com

8. Digital Cameras Knowledge

Educators should know how to operate a digital camera and understand how digital imagery can be created for educational purposes. Visit the following Web sites for helpful information and tutorials.

- **Digital Photography Review**
  [www.dpreview.com](http://www.dpreview.com)
  Digital Photography Review is an independent resource dedicated to the provision of news and information about Digital Photography and Digital Imaging published at the Internet address.
• How Digital Cameras Work
  www.howstuffworks.com/digital-camera.htm
  How Digital Cameras Work by How Stuff Works.
• The Casio Classroom: 1001 Uses for a Digital Camera
  http://pegasus.cc.ucf.edu/~ucfcasio/qyuses.htm
  This site is designed as a reference tool putting educators in touch with creative educational uses for digital cameras in educational settings.
• Digital Cameras in Education
  Web site by Keith Lightbody - ICT Consultant Digital cameras are one of the single most suitable and Communications Technology purchases you can make in a school. Promote visual literacy and get students to use digital cameras!
• Technology for Teachers: Digital Cameras
  www.bhsu.edu/education/edfaculty/ltturner/Technology_for_Teachers.htm
  A listing of Web sites about Digital Cameras and related information

9. Network knowledge applicable to your organization.

Educators should know the basics of computer networks and understand how their school network operates. The following Web sites for helpful information and tutorials.

• Knowledge Network Courses for Teachers
  www.knowledgenetwork.co.za/educators/educators.htm
  Knowledge Network, established in 1994, specializes in integrated technology solutions for the development of teachers and learners in schools, IT Project Management for Schools and IT skills evaluations for companies.
• An Educator's Guide to School Networks
  http://fcit.usf.edu/network/default.htm
  An Educator's Guide to School Networks
• Discovery Schools Kathy Schrock's Guide for Educators
  http://school.discovery.com/schrockguide/sctech/scicom.html
  Kathy Schrock's Guide for Educators - Computing and Technology
• Kid Source Online
  www.kidsource.com/kidsource/content2/how_can_computer_network.html
  Kids SourceOnline - How Can Computer Networking Be Used in the Classroom?
• What is a Computer Network
  http://archive.ncsa.uiuc.edu/edu/nie/overview/handbook/ch2.1.html
  A Guide to Networking a K-12 School District
• How to Guide: The Basics of Information Technology
  www.enterprise-ireland.com/ebusiness/guides/basics_bht/basics_p2a.htm
  Beginners Guide to Networking

10. File Mgmt & Windows Explorer Skills

All educators should be able to manage their computer files and be able to complete the following:
delete files and folders, move and copy files and folders using the My Computer window and Win
following Web sites for helpful information and tutorials.

- Grant MacEwen College: Online Student Tutorial
  [http://learn.gmcc.ab.ca/lol/students/tutorial/mod2/2obj2fms.html](http://learn.gmcc.ab.ca/lol/students/tutorial/mod2/2obj2fms.html)
  Online Student Tutorial - File Management Skills

- Oregon State University Extension Service
  [http://extension.oregonstate.edu/ectu/training/lessons/FileManagement.pdf](http://extension.oregonstate.edu/ectu/training/lessons/FileManagement.pdf)
  File Management from Oregon State University - Extension Computing Technology Unit.

- Basic Computer Skills Tutorial
  [www.umuc.edu/distance/odell/ctla/basic_skills](http://www.umuc.edu/distance/odell/ctla/basic_skills)
  UMUC Center for Teaching and Learning - Basic Computer Skills tutorial

- Alverno College's Basic Computer Skills Tutorials
  [www.depts.alverno.edu/cil/mod1](http://www.depts.alverno.edu/cil/mod1)
  Alverno College - Basic Computer Skills Tutorials.

11. Downloading Software from the Web Knowledge - including e-Books

All educators should be able to download software from the web and know of the major sites that
purpose. See the following Web sites for helpful information and tutorials.

- Tucows.com
  [www.tucows.com](http://www.tucows.com)

- Download.com
  [www.download.com](http://www.download.com)

- Shareware.com
  [www.shareware.com](http://www.shareware.com)

- FreewareFile.com
  [www.freewarefiles.com](http://www.freewarefiles.com)

- Computer Tutorials from Carol
  [http://carolirvin.com/tutorials.htm](http://carolirvin.com/tutorials.htm)
  Carol Irvin’s Free Computers Tutorials

**e-Books**

- Microsoft Reader
  [www.microsoft.com/reader](http://www.microsoft.com/reader)
  Microsoft Reader download site.

- Download Adobe Acrobat Reader
  Acrobat Reader download site.

- E-Book Links
  [www.bhsu.edu/education/edfaculty/ltturner/Ebooks.htm](http://www.bhsu.edu/education/edfaculty/ltturner/Ebooks.htm)
  A listing of download sites for readers and e-books, help and related information.

- Adobe eBooks Central
www.adobe.com/epaper/ebooks/main.html
Adobe's e-Book Web site

- **The eBook Directory**
  www.ebookdirectory.com

- **eLibrary- Books and Site Links**
  www.web-books.com/cool/ebooks/Library.htm
  Free eBooks and Best Sites.

- **Free eBooks.Net**
  www.free-ebooks.net
  Free e-books on the Internet Web site.

- **eBook.com (Australia)**
  Free e-books Web site from ebooks.com

12. Installing Computer Software onto a Computer System

Educators should be able to install computer software onto a computer system. See the following information and tutorials.

- **Basics of Computing: Installing Software**
  http://members.aol.com/shobansen3/installing.html
  Installing Software Tutorial

- **Basic Computer Skills for Teachers**
  www.aps.edu/aps/sw_depart/basicskills/Installing.html
  Basic Skills for Teachers - How to Install Software

- **Regents of the University of Minnesota Master Internet Volunteer Program**
  www.extension.umn.edu/miv/curriculum/awdinst.html
  Downloading and Installing Software Instructions.

- **Welcome to Computer Training Tutorials**
  www.ckls.org/~crippel/computerlab/tutorials
  Software Installation Problems Tutorial

13. WebCT or Blackboard Teaching Skills

Educators should be aware of these two online teaching tools and know about them and/or know how to teach or take classes. See the following Web sites for helpful information and tutorials.

- **WebCT Web site**
  www.webct.com

- **Blackboard Web site**
  www.blackboard.com

- **ICON- Iowa Courses Online**
  http://icon.uiowa.edu/index.shtml
  WebCT and Blackboard courses
• Comparison of Online Course Delivery Software Products  
  www.marshall.edu/it/cit/webct/compare/comparison.html  
  Complete side by side comparison of various online course delivery software products.

14. Video Conferencing skills

Educators should be able to use a video conferencing classroom and understand the basics of teaching with Video Conferencing. See the following Web sites for helpful information and tutorials.

• JISC Technology Applications Programme  
  www.cse.dmu.ac.uk/~jtb/jtap-037.htm  
  Practical Guidelines for Teaching with Video Conferencing from JTAP
• SBC Knowledge Network Explorer  
  www.kn.pacbell.com/wired/vidconf/intro.html  
  An Introduction to Video Conferencing from SCB
• Teaching with Technology  
  www.powertolearn.com/articles/teaching_with_technology/video_conferencing_for_teachers.html  
  Video Conferencing for Teaching & Learning article from Power to Learn
• LDTI Case Studies  
  www.icbl.hw.ac.uk/ldti/vcstudies  
  Video Conferencing for Teaching & Learning online articles and information
• Conferencing Technology Guidelines  
  www.gla.ac.uk/lncs/main/video.htm  
  Video Conferencing Guidelines from the University of Glasgow
• Teleconferencing and Teaching  
  http://coehd.utsa.edu/users/pmcgee/teleconference.htm  
  Teleconferencing and Teaching from the University of Texas

15. Computer Related Storage Devices Knowledge.

Educators should understand and know how to use the following data storage devices: disks, CDs, DVDs. See the following Web sites for helpful information and tutorials.

Diskettes

• Disabled Women's Network Ontario Computer Basics  
  http://dawn.thot.net/cd/135.html#2  
  Computer Basics - diskettes
• Hardware Basics: Inside the Box  
  www.cse.psu.edu/~domico/CMPSC101/Lecture-1.htm  
  Computer Hardware Basics - diskettes
• Formatting Diskettes  
  www.vertical-market.com/gui/W2_1099GUI/Formatting%20Diskettes.htm  
  Step by step guide to formatting diskettes
• How Floppy Disks Work
http://computer.howstuffworks.com/floppy-disk-drive.htm
How Stuff Works explains How Floppy Disks Work

CDs

- Cognigen PC Burning Basics
  CD Burning Basics
- Creating your own CDs
  www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/creating
The Microsoft Networks guide to burning CDs
- Information on CD-ROM Drives
  www.computerhope.com/help/cdrom.htm
  Computer Hardware - CD Information
- PC Guide's About CD-ROM Drives
  www.pcguide.com/ref/cd/index-c.html
  CD-ROMs - The PC Guide
- Zip CDs User Manual
  www.iomega.com/support/manuals/zipcda8x4x32/use_discs.html
  Selecting and Using CDs.
- Making Data CDs
  www.ivytech.edu/madison/hr/Instructions%20for%20Creating%20Data%20CD.doc
  Making Data CDs Using the Easy CD Creator
- Wikipedia, the free encyclopedia: CDs
  http://en.wikipedia.org/wiki/Compact_disc
  CDs from Wikipedia

USB Drives
(also known as pen drives, flash drives, key chain drives, portable hard drives)

- SearchStorage.Com: Jump Drive
  http://searchstorage.techtarget.com/sDefinition/0,,sid5_gci869057,00.html
  Keychain Drive Information
- #1 Pen & Flash Drives
  www.pen-flash-drives.com
  Flash Drive Information
- How USB Ports Work
  http://computer.howstuffworks.com/usb.htm
  How USB Drives Work
- USB Floppy Disk Driver FAQs
  www.yedata.com/support/floppydrives_faq.shtml
  FAQ about USB Drives
- USB Hard Drive By Crazy PC
  www.cluboverclocker.com/reviews/drives/flash_drives/q_usb_hd
  USB Drive Information
• The MemoryGuide.com
  www.the-memory-guide.com/usb-drive.html
  USB Drives - A New Wave in Portable Storage

**DVDs**

• How DVDs Work
  http://electronics.howstuffworks.com/dvd.htm
  How Does a DVD Work? from How Stuff Works

• How It Works: DVD
  www.pcworld.com/howto/article/0,aid,14697,00.asp
  How Do DVDs Work? from PC World

• Sony DVD FAQs
  www.sonyburners.com/faqs
  DVDs FAQs

• Use DVDs for Archiving and Storage
  www.datamind.co.uk/merchant/dvd_for%20storage_backup.htm
  Use DVDs for Storage and Archiving from Datamind.co.uk

• KarbosGuide.com: DVDs
  www.karbosguide.com/hardware/module4c3a.htm
  DVD Media

**Zip Disks**

• Iomega's Home Page
  www.iomega.com/na/landing.jsp
  Zip Drive Information from iomega

• Zip Drive FAQs
  http://phyweb.lbl.gov/compute/local_zip.html Zip Drive FAQ

• Zip: Q&A
  www.amigau.com/zipdrives/aFAQ.html Zip Home - FAQ

16. Scanner Knowledge

Educators should know how to use a scanner and what OCR capacity is. See the following Web sites for information and tutorials.

• A Few Scanning Tips
  www.scantips.com
  Scanning Tips by Wayne Fulton

• AARP: How to Use a Scanner
  www.aarp.org/computers-howto/Articles/a2002-07-16-scan.html
  How to Use a Scanner

• How do I Use a Scanner
  www.bbc.co.uk/webwise/askbruce/articles/scancam/usescan_1.shtml
How to Use a Scanner by Ask Bruce

- **Scanners**
  - [www.pcworldmalta.com/archive/iss44/scanners.htm](http://www.pcworldmalta.com/archive/iss44/scanners.htm)
  - Scanner Information by PC World
- **Scanning Tips for Beginners (and old pros, too)**
  - [http://aroundcny.com/technofile/texts/tec010503.html](http://aroundcny.com/technofile/texts/tec010503.html)
  - Scanning Tips for Beginners
- **Best Sites for OCR Scanners**
  - OCR Scanner Information.
- **Secrets of...**
  - [www.secretsof.com/content/576](http://www.secretsof.com/content/576)
  - Secrets of Taming Computers - Scanners

17. PDAs Knowledge

Educators should know what a PDA is and who to use one. See the following Web sites for helpful tutorials.

- **Palm Web site**
  - [www.palmone.com/us/?siteRef=p1-xfer](http://www.palmone.com/us/?siteRef=p1-xfer)
- **The Source for a Palm Powered World**
  - [www.palmgear.com](http://www.palmgear.com)
  - PalmGear's Web site
- **Palm News and Information**
  - Palm News for Beginners
- **Real People Helping People: Palm Computing Devices**
  - General Information on Palm Pilots
- **Basic PDA Specs Explained**
  - Basic PDA Information
- **For PDA Users**
  - [http://scilib.ucsd.edu/bml/pda/intro.htm](http://scilib.ucsd.edu/bml/pda/intro.htm)
  - Introduction for PDAs from UCSD

18. Deep Web Knowledge

Educators should know what the deep web is and how to use it as a resource tool. See the following Web sites for helpful information and tutorials.

- **The Deep Web Directory**
  - [www.completeplanet.com](http://www.completeplanet.com)
  - CompletePlanet's Deep Web search engine and site
19. Educational Copyright Knowledge

Educators should understand the copyright issues related to education including multimedia and issues. See the following Web sites for helpful information and tutorials.

- **University of Washington Libraries: Copyright Information for Educators**
  
  [www.lib.washington.edu/help/guides/copyright.html](http://www.lib.washington.edu/help/guides/copyright.html)

- **Internet School Library Media Center**
  
  [http://falcon.jmu.edu/~ramseyil/copy.htm](http://falcon.jmu.edu/~ramseyil/copy.htm)

- **Adventures of CyberBee**
  
  [www.cyberbee.com/copyrt.html](http://www.cyberbee.com/copyrt.html)

- **West Valley College Library: Copyright**
  
  [www.westvalley.edu/wvc/library/copyright-resources.html](http://www.westvalley.edu/wvc/library/copyright-resources.html)

- **University of Maryland University College: Information and Library Services**
  
  [www.umuc.edu/library/copy.html](http://www.umuc.edu/library/copy.html)

- **PBS Teacher's Source**
  
  [www.pbs.org/teachersource/copyright/copyright_ed_multi.shtml](http://www.pbs.org/teachersource/copyright/copyright_ed_multi.shtml)

- **Black Hills State University: Copyright Guidelines**
  
  [www.bhsu.edu/education/edfaculty/ltturner/Copyright%20Guidelines.htm](http://www.bhsu.edu/education/edfaculty/ltturner/Copyright%20Guidelines.htm)

20. Computer Security Knowledge
Educators should know about basic computer security issues related to education. See the following helpful information and tutorials.

- **Computer World: The Need for Better Security**
  [www.computerworld.com/securitytopics/security/story/0,10801,71714,00.html](http://www.computerworld.com/securitytopics/security/story/0,10801,71714,00.html)
  Computer security concerns article from ComputerWorld

- **Security 101: Security**
  [www.secure101.net/security/security.htm](http://www.secure101.net/security/security.htm)
  Security 101 A Basic Computer Security Resource for Educators

- **Educational Cyber Playground: Security**
  Computer Security and Related Issues Portal

- **Cisco Systems: Beginners Guide to Network Security**
  A Beginners Guide to Network Security

- **A Beginners Guide to Wireless Security**
  A beginner’s guide from GovernmentSecurity.org

- **Computer and Network Security Introduction**
  [www.comptechdoc.org/independent/security](http://www.comptechdoc.org/independent/security)
  An article by the Computer Technology Documentation Project

- **Science & Technology Resources on the Internet**
  [www.istl.org/02-fall/internet.html](http://www.istl.org/02-fall/internet.html)
  Computer security article by Jane Kinkus, Purdue University
This past January I wrote “10 Tech Skills Every Student Should Have” and I have decided to modify it for the “10 Tech Skills Every Educator Should Have.” Overall, educators need to understand some basics about technology and that it is not a be-all-end-all solution to everything in a classroom. Technology can help teachers differentiate and provide new experiences for their students. Technology can also help students better understand a concept and provide extra help for them. Educators need to start with good pedagogy and lesson objectives and activities and then look for technology that can enhance those lessons, improve teaching and learning, and help students learn. The How’s, Why’s and Value of Educational Technology. 20 technology skills every educator should have. Jun 2005. L Turner. Turner, L., (2005, June). 20 technology skills every educator should have. THE Journal. Retrieved November 18, 2006 from http://thejournal.com/articles/17325_1. Few of the above concerns are unique to Bachelor of Education and Postgraduate Certificate of Education courses in IT; however, they can be relatively more significant. 20 Technology skills every educator should have. Web Science Tools: Lots of sites linked here by topic and grade level and tells if the site is free or charges. 100 Digital Storytelling Tools for Your Digital Selves + Natives, Part 2. Teacher Technology Bucket List: Hurry You Have Until September to Complete It. 20 Technology Skills that Every Educator Should Have. See more. 16 Classroom Tools Teachers should know about. Apps in Education - Math Bingo. My son who has Autism is obsessed with numbers and we own every single app on this Top 10 List Addition Apps list other maths apps). His favourite by far is Math Bingo - Lisa M. Recension av Math Bingo - Utmana dig själv i mattebingo.