

**TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5**

Grade 5			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
1.0	Students will understand basic operations and concepts of technology.	5							
5.1.1	Students will demonstrate an understanding of the nature and operation of technology systems.	5							
5.1.1.a	Use and apply appropriate computer terminology.	5							
5.1.1.b	Exhibit proper posture and fingering techniques at the keyboard.	5							
5.1.1.c	Work with more than one software application at a time.	5							
5.1.2	Students will exhibit a proficiency in the use of technology.	5							
5.1.2.a	Use and apply appropriate computer terminology.	5							
5.1.2.b	Understand the differences in file formats and compatibility.	5							
5.1.2.c	Recognize telecommunications as a way to share information electronically.	5							
5.1.2.d	Develop skills in using function keys and keyboard short cuts.	5							
5.1.3	Students will develop basic skills (alpha numeric and special characters) in using keyboard using the touch system	5							
5.1.3.a	Exhibit proper posture and fingering techniques for the alphanumeric keyboard.	5							
5.1.3.b	Use and apply appropriate keyboarding terminology.	5							
5.1.3.c	Review and demonstrate proper touch-keying techniques for all alpha, numeric and symbol keys.	5							
5.1.3.d	Apply the touch-keying system to develop basic skills on the alphanumeric keyboard at a rate of 20 gross words per minute (GWAM) for a 2 minute straight copy timed writing.	5							
5.1.3.e	Key a simple letter to include alpha, numeric, and appropriate symbol keys such as periods, question marks, etc.	5							
2.0	Students will understand the importance of social, ethical, and human issues associated with technology.	5							
5.2.1	Students will understand the ethical, cultural, and societal issues related to technology.	5							
5.2.1.a	Adhere to software licensing agreements and respect the electronic work of other individuals.	5							
5.2.1.b	Obey the copyright laws and accurately record information source.	5							

**TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5** *continued*

Grade 5			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
5.2.1.c	Discuss the advantages and disadvantages of the use of technology.	5							
5.2.1.d	Recognize the need for equal access to materials and resources.	5							
5.2.1.e	Recognize the need for specific access to assistive devices.	5							
5.2.2	Students will practice responsible use of technology systems, information, and software.	5							
5.2.2.a	Adhere to software licensing agreements and respect the electronic work of other individuals	5							
5.2.2.b	Practice and respect the copyright laws and accurately record information source	5							
5.2.2.c	Follow Acceptable Use Guidelines as set by local school district	5							
5.2.2.d	Discuss the impact of viruses as to the advantages and disadvantages of the use of technology	5							
5.2.2.e	Know and use rules of "Netiquette."	5							
5.2.3	Students will develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.	5							
5.2.3.a	Analyze the advantages and disadvantages of the use of technology with respect to personal safety, ethics, and efficiency.	5							
5.2.3.b	Practice safe use of the electronic equipment.	5							
3.0	Students will use technology productivity tools.	5							
5.3.1	Students will use technology tools to enhance learning, increase productivity, and promote creativity.	5							
5.3.1.a	Use subject specific information gathered through technology resources for a variety of curriculum subjects.	5							
5.3.1.b	Create presentations for various subject related assignments.	5							
5.3.1.c	Use simulation software and tutorial software to assist with learning.	5							
5.3.1.d	Use on-line help and documentation (help buttons/menus/guides, readme files, Ask an Expert web sites, electronic tech support).	5							
5.3.2	Students will use productivity tools to collaborate in constructing technology enhanced models, prepare publications, and produce other creative works.	5							

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5 *continued*

Grade 5			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
5.3.2.a	Use the computer and technology resources to practice learning skills in relation to other subject areas such as math, science, English, etc.	5							
5.3.2.b	Recognize that different software programs are design for specific purposes.	5							
5.3.2.c	Use the characteristics of multimedia (text, audio, images, video, etc.) in presentations	5							
5.3.2.d	Identify and discuss multimedia terms/concepts (slide/card, link/button, text box, navigate, transition) as a class/group.	5							
5.3.2.e	Use a age appropriate web authoring tool to compose text, create hyperlinks, and add relevant multimedia.	5							
5.3.2.f	Explore the navigation of software utilized in the classroom.	5							
5.3.2.g	Correctly perform the following basic skills in word processing and spreadsheet programs.	5							
4.0	Students will use technology communications tools.	5							
5.4.1	Students will use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.	5							
5.4.1.a	Use communication tools to participate in projects.	5							
5.4.1.b	Explore effective ways to demonstrate ideas (font, color, background/white space, graphics, and sound to ensure that products are appropriate for the communication media including multimedia screen displays, Internet documents, and printed materials).	5							
5.4.1.c	Publish information in a variety of media including, but not limited to, printed copy, monitor display, Internet documents, and video.	5							
5.4.1.d	Use presentation software to communicate with specific audiences.	5							
5.4.1.e	Select representative student products to be collected and stored in an electronic evaluation tool.	5							
5.4.1.f	Participate in the creation of technology assessment tools such as checklists, timelines, or rubrics.	5							
5.4.2	Students will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.	5							

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5 *continued*

Grade 5			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
5.4.2.a	Demonstrate sensitivity to appropriate language use when communicating.	5							
5.4.2.b	Explore principles of design (proportion, balance, contrast, rhythm, emphasis, unity, etc.), in creating a presentation/document.	5							
5.4.2.c	Use appropriate applications, including, but not limited to spreadsheets and databases to develop charts and graphs by using data from various sources.	5							
5.4.2.d	Publish information in a variety of media including, but not limited to, printed copy, monitor display, Internet documents, and video.	5							
5.4.2.e	Use presentation software to communicate with specific audiences.	5							
5.4.2.f	Integrate various media (video tape, CD-ROM, laserdisc, digital sources, internet, etc. in a multimedia presentation.	5							
5.4.2.g	Select representative student products to be collected and stored in an electronic evaluation tool.	5							
5.4.2.h	Evaluate student products for relevance to the assignment or task.	5							
5.4.2.i	Be aware that file size is important, plan, organize and save multimedia files with attention to file size and media storage.	5							
5.0	Students will select and use appropriate technology research tools.	5							
5.5.1	Students will use technology to locate, evaluate, and collect information from a variety of sources.	5							
5.5.1.a	Perform simple searches to acquire information such as text, audio, video, graphics, and online help, using CD-ROM and online databases.	5							
5.5.1.b	Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean (and, or, not) search strategies.	5							
5.5.1.c	Select appropriate strategies to navigate and access information on local area networks (printer, local servers, CD-ROM towers...) and wide area networks (Internet, WWW, telecommunications...) for research and resource sharing.	5							
5.5.1.d	Distinguish between statements of fact and opinion.	5							

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5 *continued*

Grade 5		Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
5.5.1.e	Evaluate resources for accuracy, authority, reliability, currency and relevance.	5						
5.5.2	Students will use technology tools to process data and report results.	5						
5.5.2.a	Create an outline for a report using information from resources and reference sources..	5						
5.5.2.b	Synthesize information using word processing, databases, and/ or spreadsheets.	5						
5.5.3	Students will evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.	5						
5.5.3.a	Perform searches to acquire information such as text, audio, video, graphics, and online help, using CD-ROM and online databases.	5						
5.5.3.b	Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean (and, or, not) search strategies.	5						
5.5.3.c	Evaluate acquired information for validity and usefulness.	5						
5.5.3.d	Select appropriate strategies to navigate and access information on local area networks (printer, local servers, CD-ROM towers...) and wide area networks (Internet, WWW, telecommunications...) for research and resource sharing.	5						
6.0	Students will utilize technology problem-solving and decision-making tools.	5						
5.6.1	Students will use technology resources for solving problems and making informed decisions.	5						
5.6.1.a	Determine the usefulness and appropriateness of electronic information and apply critical analysis to resolve conflicts (discrepancies between sources) and validate information.	5						
5.6.1.b	Use software programs with audio, video, and graphics to enhance learning experiences	5						
5.6.1.c	Use appropriate software to express ideas and solve problems including the use of word processing, graphics, databases, spreadsheets, simulations, and multimedia.	5						
5.6.1.d	Use a variety of data types including text, graphics, digital audio, and video.	5						

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 5 *continued*

Grade 5		Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
5.6.1.e	Use communication tools to participate in projects (e.g. telephone, fax machine, email)	5						
5.6.1.f	Use software features, such as built-in or on-line help.	5						
5.6.1.g	Use software features, such as slide show previews, to evaluate a final product.	5						
5.6.1.h	Use a graphical organizer and/or outliner to categorize, make connections, and visually display relationships (cause and effect, Venn Diagrams and hierarchical organization).	5						
5.6.2	Students will employ technology in the development of strategies for solving problems in the real world.	5						
5.6.2.a	Determine the usefulness and appropriateness of electronic information and apply critical analysis to resolve conflicts (discrepancies between sources) and validate information.	5						
5.6.2.b	Use software programs with audio, video, and graphics to enhance learning experiences.	5						
5.6.2.c	Use appropriate software to express ideas and solve problems including the use of word processing, graphics, databases, spreadsheets, simulations, and multimedia.	5						
5.6.2.d	Use a variety of data types including text, graphics, digital audio, and video.	5						
5.6.2.e	Use communication tools to participate in projects (e.g., telephone, fax machine, email).	5						
5.6.2.f	Use interactive technology environments, such as simulations, electronic science or mathematics laboratories, virtual museum field trips, or on-line interactive lessons, to extend learning.	5						
5.6.2.g	Use software features, such as built-in or on-line help.	5						
5.6.2.h	Use software features, such as slide show previews, to evaluate a final product.	5						
5.6.2.i	OPTIONAL – If available, use a computer program, such as LOGO/HTML to demonstrate how computers use instruction.	5						

**TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8**

Grade 8			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
1.0	Students will understand basic operations and concepts of technology.	8							
8.1.1	Students will demonstrate an understanding of the nature and operation of technology systems.	8							
8.1.1.a	Demonstrate knowledge and appropriate use of operating systems, software applications, communication and networking components.	8							
8.1.1.a.1	Manipulate icons on the desktop, create folders, and store files within the folder.	8							
8.1.1.a.2	Use different software programs (word processor, spreadsheets, etc.).	8							
8.1.1.a.3	Maintain a current vocabulary of networking terms	8							
8.1.1.b	Use technology terminology appropriate to the task.	8							
8.1.1.b.1	Print reports based on a sort	8							
8.1.1.b.2	Print reports based on a query	8							
8.1.1.c	Use terminology related to the Internet appropriately including, but not limited to electronic mail (e-mail), Uniform Resource Locators (URLs), electronic bookmarks, local area networks (LANs), wide area networks (WANs), World Wide Web (WWW) page, and Hyp	8							
8.1.1.d	Explain how LANs, WANs, Internet, and intranet operate versus a stand-alone system.	8							
8.1.2	Students will exhibit a proficiency in the use of technology.	8							
8.1.2.a	Compare, contrast, and appropriately use various input, processing, output, and primary/secondary storage devices.	8							
8.1.2.a.1	Use peripheral devices, such as a mouse, a keyboard, and a scanner correctly.	8							
8.1.2.a.2	Organize files on a computer disk, hard drive, server, or other storage device.	8							
8.1.2.b	Perform basic software application functions including, but not limited to, opening an application program and creating, modifying, printing, and saving documents.	8							
8.1.2.b.1	Type, edit, and print a document.	8							
8.1.2.b.2	Create a chart that visually represents data.	8							
8.1.2.b.3	Import graphics with appropriate placement.	8							
8.1.2.b.4	Use advanced formatting techniques such as margins, line spacing, and tabs.	8							

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8 *continued*

Grade 8			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
8.1.2.b.5	Create a multi-page, multimedia presentation using text, graphics, and sound to effectively communicate a concept.	8							
8.1.3	Students will develop basic skills (alpha numeric and special characters) in using keyboard using the touch system	8							
8.1.3.a	Using appropriate ergonomics, apply the touch system on the alpha, numeric, and symbol keys at a rate of 30 net words per minute (NMPM) on a 2 minute time straight copy timed writing.	8							
8.1.3.b	Apply the touch system to the numeric keypad	8							
2.0	Students will understand the importance of social, ethical, and human issues associated with technology.	8							
8.2.1	Students will understand the ethical, cultural, and societal issues related to technology.	8							
8.2.1.a	Practices ethical and legal behaviors when using information and technology, and discuss ramifications of misuse.	8							
8.2.1.a.1	Discuss copyright laws/issues and model ethical acquisition and use of digital information, citing sources using established methods.	8							
8.2.1.a.2	Demonstrate proper etiquette and knowledge of acceptable use while in an individual classroom, lab, or on the Internet and intranet.	8							
8.2.1.a.3	Describe the consequences regarding copyright violations including, but not limited to, computer hacking, computer piracy, intentional virus setting, and invasion of privacy.	8							
8.2.1.b	Discuss current changes in information technologies and how those changes affect society and the workplace.	8							
8.2.2	Students will practice responsible use of technology systems, information, and software.	8							
8.2.2.a	Practices ethical and legal behaviors when using information and technology, and discuss ramifications of misuse.	8							
8.2.2.a.1	Discuss copyright laws/issues and model ethical acquisition and use of digital information, citing sources using established methods.	8							

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8 *continued*

Grade 8			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
8.2.2.a.2	Demonstrate proper etiquette and knowledge of acceptable use while in an individual classroom, lab, or on the Internet and intranet.	8							
8.2.2.a.3	Describe the consequences regarding copyright violations including, but not limited to, computer hacking, computer piracy, intentional virus setting, and invasion of privacy.	8							
8.2.3	Students will develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.	8							
8.2.3.a	Practices ethical and legal behaviors when using information and technology, and discuss ramifications of misuse.	8							
8.2.3.a.1	Discuss copyright laws/issues and model ethical acquisition and use of digital information, citing sources using established methods. including, but not limited to, computer hacking, computer piracy, intentional virus setting, and invasion of privacy.	8							
8.2.3.a.2	Demonstrate proper etiquette and knowledge of acceptable use while in an individual classroom, lab, or on the Internet and intranet.	8							
8.2.3.a.3	Describe the consequences regarding copyright violations	8							
8.2.3.a.4	Demonstrate safe personal practices of the internet.	8							
8.2.3.a.5	Demonstrate appropriate use of electronic equipment.	8							
8.2.3.b	Demonstrate knowledge of the relevancy of technology to future careers, lifelong learning, and daily living for individuals of all ages.	8							
8.2.3.b.1	Take a career assessment test and discuss results.	8							
8.2.3.b.2	Discuss the impact of technology on career options.	8							
8.2.3.b.3	Recognize that people control technologies and are responsible for their effects.	8							
3.0	Students will use technology productivity tools.	8							
8.3.1	Students will use technology tools to enhance learning, increase productivity, and promote creativity.	8							

**TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8** *continued*

Grade 8		Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
8.3.1.a	Demonstrate proficiency in the use of a variety of input devices such as mouse/track pad, keyboard, microphone, digital camera, printer, scanner, disk/disc, modem, CD-ROM, or joystick.	8						
8.3.1.b	Use digital keyboarding standards for data input such as spacing after punctuation and quotation marks.	8						
8.3.1.c	Demonstrate the ability to select and use software for a defined task according to quality, appropriateness, effectiveness, and efficiency.	8						
8.3.1.c.1	Choose the correct software (e.g., word processor, database, or spreadsheet) per task.	8						
8.3.1.c.2	Create projects for different audiences (e.g., peers or community).	8						
8.3.2	Students will use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.	8						
8.3.2.a	Use productivity tools to create effective document files for defined audiences such as slide shows, posters, multimedia presentations, newsletters, brochures, or reports.	8						
8.3.2.b	Demonstrate appropriate use of fonts, styles, and sizes, as well as effective use of graphics and page design to create a report or presentation.	8						
4.0	Students will use technology communications tools.	8						
8.4.1	Students will use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences by:	8						
8.4.1.a	Using multimedia authoring programs to create linear or non-linear projects incorporating text, audio, video, and/or graphics.	8						
8.4.1.b	Creating a document using desktop publishing techniques including, but not limited to, the creation of multi-column or multi-section documents with a variety of text-wrapped frame formats.	8						
8.4.2	Students will use a variety of media and formats to communicate information and ideas effectively to multiple audiences by:	8						
8.4.2.a	Planning, creating, and editing documents created with a word processor using readable fonts, alignment, page setup, tabs, and ruler settings.	8						

TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8 *continued*

Grade 8		Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
8.4.2.b	Creating and editing spreadsheet documents using all data types, formulas and functions, and chart information.	8						
5.0	Students will select and use appropriate technology research tools.	8						
8.5.1	Students will use technology to locate, evaluate, and collect information from a variety of sources.	8						
8.5.1.a	Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean search strategies.	8						
8.5.1.b	Use on-line help and other documentation.	8						
8.5.1.c	Evaluate the electronic information for accuracy and validity.	8						
8.5.1.d	Identify the source, location, relevancy, and content validity of available information	8						
8.5.2	Students will use technology tools to process data and report results.	8						
8.5.2.a	Apply appropriate electronic search strategies in the acquisition of information including keyword and Boolean search strategies.	8						
6.0	Students will utilize technology problem-solving and decision-making tools.	8						
8.6.1	Students will use technology resources for solving problems and making informed decisions.	8						
8.6.1.a	Use technology in self-directed activities by sharing products for defined audiences.	8						
8.6.1.a.1	Create a document using a word processor to share with the class.	8						
8.6.1.a.2	Create presentations for extra-curricular activities (e.g., science fair, 4-H, or parent/teacher organizations).	8						
8.6.1.b	Integrate acquired technology applications skills, strategies, and use of the word processor, database, spreadsheet, telecommunications, draw, paint, and utility programs into the foundation and enrichment curricula.	8						
8.6.1.b.1	Compose essays or reports using a word processor.	8						
8.6.1.b.2	Create charts and graphs using a spreadsheet.	8						
8.6.2	Students will employ technology in the development of strategies for solving problems in the real world.	8						

**TechLiteracy Assessment Alignments to Tennessee Technology Standards - Grade 8** *continued*

Grade 8			Database	Multimedia & Presentations	Social & Ethical Issues	Spreadsheets	Systems & Fundamentals	Telecommunications & Internet	Word Processing
8.6.2.a	The student will demonstrate knowledge of the relevancy of technology to future job skills, life-long learning, and daily living.	8							
8.6.2.a.1	Discuss uses of technology at home.	8							
8.6.2.a.2	Compare technology of the past with the present.	8							
8.6.2.b	Use technology resources (e.g., calculators, videos, educational software) for self-directed learning, problem-solving, and extended learning activities.	8							
8.6.2.b.1	Describes more than one problem-solving method.	8							
8.6.2.b.2	Selects an appropriate problem-solving method.	8							
8.6.2.b.3	Generate a desired outcome using a problem-solving method.	8							