K-8 Technology Literacy Standards* Continuum/Scope and Sequence (High Priority Standards)—Grades 6-8

Technology Domain (Priority Areas)	Grade 6	Grade 7	Grade 8
Basic Operations	1.1. Use features of a computer operating system (e.g., determine available space on local storage devices and remote storage resources, access the size and format of files, identify the version of an application)→ 1.4 Identify and use a variety of storage media (school servers)→	1.1. Use features of a computer operating system (e.g., determine available space on local storage devices and remote storage resources, access the size and format of files, identify the version of an application). 1.4 Identify and use a variety of storage media (school servers).	1.1 Use features of a computer operating system (e.g., determine available space on local storage devices and remote storage resources, access the size and format of files, identify the version of an application). 1.4 Identify and use a variety of storage media (school servers).
Word Processing	1.6. Demonstrate use of intermediate features in word processing applications (e.g., tabs, indents, headers and footers, end notes, bullet and numbering, tables). → 1.7. Create, save and open a word processing document in different file formats→	1.6. Demonstrate use of intermediate features in word processing applications (e.g., tabs, indents, headers and footers, end notes, bullet and numbering, tables). 1.7. Create, save and open a word processing document in different file formats.	1.6. Demonstrate use of intermediate features in word processing applications (e.g., tabs, indents, headers and footers, end notes, bullet and numbering, tables). 1.7. Create, save and open a word processing document in different file formats.
Databases			1.8 Describe the structure and function of a database, using related terms appropriately. 1.9 Create a simple database, defining field formats and adding new records. 1.10 Perform simple operations in a database.
Spreadsheets		1.12 Describe the use of spreadsheets to calculate, graph, organize, and present data in a variety of real-world settings→ 1.13 Create an original spreadsheet, using formulas→ 1.14 Use various number formats (e.g., scientific notation, percentages, exponents) as appropriate→ 1.15 Produce simple charts and graphs from a spreadsheet→	1.12 Describe the use of spreadsheets to calculate, graph, organize, and present data in a variety of real-world settings. 1.13 Create an original spreadsheet, using formulas. 1.14 Use various number formats (e.g., scientific notation, percentages, exponents) as appropriate. 1.15 Produce simple charts and graphs from a spreadsheet.

Technology Domain	Grade 6	Grade 7	Grade 8
Internet	1.18 Use Web browsing to access information (e.g., enter a URL, access links, create bookmarks/favorites, print Web pages)→ 1.19 Identify probable types and locations of Web sites by examining their domain names, and explain that misleading domain names are sometimes created in order to deceive people→	1.18 Use Web browsing to access information (e.g., enter a URL, access links, create bookmarks/favorites, print Web pages). 1.19 Identify probable types and locations of Web sites by examining their domain names, and explain that misleading domain names are sometimes created in order to deceive people.	1.18 Use Web browsing to access information (e.g., enter a URL, access links, create bookmarks/favorites, print Web pages). 1.19 Identify probable types and locations of Web sites by examining their domain names, and explain that misleading domain names are sometimes created in order to deceive people. 1.21 Explain and correctly use terms related to online learning (e.g., IP address, post, thread, Intranet, discussion forum, drop box, account, password).
Multimedia	1.25 Use a variety of technology tools (e.g., dictionary, thesaurus, grammar-checker, calculator) to maximize the accuracy of work. (TE)→	1.24 Create a multimedia presentation using various media as appropriate (PowerPoint). 1.25 Use a variety of technology tools (e.g., dictionary, thesaurus, grammar-checker, calculator) to maximize the accuracy of work→	1.24 Create a multimedia presentation using various media as appropriate (PowerPoint). 1.25 Use a variety of technology tools (e.g., dictionary, thesaurus, grammar-checker, calculator) to maximize the accuracy of work.
Ethics	2.1 Explain ethical issues related to privacy, plagiarism, spam, viruses, hacking, and file sharing. (TE)→ 2.2. Explain how copyright law protects the ownership of intellectual property, and explain possible consequences of violating the law. (Library/Media)→ 2.3 Explain fair use guidelines for using copyrighted materials (e.g., images, music, video, text) in school projects. (Library/Media)→	2.1 Explain ethical issues related to privacy, plagiarism, spam, viruses, hacking, and file sharing. 2.2. Explain how copyright law protects the ownership of intellectual property, and explain possible consequences of violating the law. 2.3 Explain fair use guidelines for using copyrighted materials (e.g., images, music, video, text) in school projects.	2.1 Explain ethical issues related to privacy, plagiarism, spam, viruses, hacking, and file sharing. 2.2. Explain how copyright law protects the ownership of intellectual property, and explain possible consequences of violating the law. 2.3 Explain fair use guidelines for using copyrighted materials (e.g., images, music, video, text) in school projects.
Society		2.5 Identify and discuss the technology proficiencies needed in the workplace, as well as ways to prepare to meet these demands. (TE)→ 2.6 Identify and describe the effect technological changes have had on society. (TE)→	2.5 Identify and discuss the technology proficiencies needed in the workplace, as well as ways to prepare to meet these demands. 2.6 Identify and describe the effect technological changes have had on society.

Society—continued	Grade 6	Grade 7	Grade 8
		2.8 Analyze and explain how media and technology can be used to distort, exaggerate, and misrepresent information. (TE)→ 2.9 Give examples of hardware and applications that enable people with disabilities to use technology. (TE)→	2.8 Analyze and explain how media and technology can be used to distort, exaggerate, and misrepresent information. 2.9 Give examples of hardware and applications that enable people with disabilities to use technology.
Safety	2.11 Provide examples of safe and unsafe practices for sharing personal information via e-mail and the Internet. (TE)→ 2.12 Explain why computers, networks, and information need to be protected from viruses, intrusion, and vandalism. (TE)→ 2.13 Explain terms associated with the safe, effective, and efficient use of telecommunications/Internet (e.g., password, firewalls, spam, security, Acceptable Use Policy). (TE)→ 2.14 Describe how cyber bullying can be blocked. (TE)→	2.11 Provide examples of safe and unsafe practices for sharing personal information via e-mail and the Internet. 2.12 Explain why computers, networks, and information need to be protected from viruses, intrusion, and vandalism. 2.13 Explain terms associated with the safe, effective, and efficient use of telecommunications/Internet (e.g., password, firewalls, spam, security, Acceptable Use Policy). 2.14 Describe how cyber bullying can be blocked.	2.11 Provide examples of safe and unsafe practices for sharing personal information via e-mail and the Internet. 2.12 Explain why computers, networks, and information need to be protected from viruses, intrusion, and vandalism. 2.13 Explain terms associated with the safe, effective, and efficient use of telecommunications/Internet (e.g., password, firewalls, spam, security, Acceptable Use Policy). 2.14 Describe how cyber bullying can be blocked.
Research/ Communication		3.1 Explain and demonstrate effective searching and browsing strategies when working on projects. (TE)→ 3.2 Collect, organize, and analyze digital information from a variety of sources, with attribution. (TE)→ 3.7 Plan, design, and develop a multimedia product to present research findings and creative ideas effectively, citing sources.(TE)→ 3.9 Use a variety of telecommunication tools (e.g., e-mail, discussion groups, Web pages) to collaborate and communicate with peers, experts, and other audiences (at district's discretion). (TE)→	3.1 Explain and demonstrate effective searching and browsing strategies when working on projects. 3.2 Collect, organize, and analyze digital information from a variety of sources, with attribution. 3.7 Plan, design, and develop a multimedia product to present research findings and creative ideas effectively, citing sources. 3.9 Use a variety of telecommunication tools (e.g., e-mail, discussion groups, Web pages) to collaborate and communicate with peers, experts, and other audiences (at district's discretion).

* Based on 2008 Massachusetts Technology Literacy Standards, Massachusetts Department of Elementary and Secondary Education

(TE= Technology Engineering Program)