

Archdiocese of Washington Catholic Schools
Academic Standards
Technology

KINDERGARTEN

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Understand the uses of technology systems

K.1.A.1.a. Recognize and identify the function of the major hardware components in a computer system

K.1.A.1.b. Recognize symbols and icons used to identify common functions (such as the arrow, hyperlinks, printer, save)

K.1.A.1.c. Demonstrate the use of the mouse (or trackpad) to perform computer functions (such as accessing an application, indicating a choice, or activating a hyperlink)

K.1.A.1.d. Demonstrate the use of the keyboard to type letters and numbers and know how to use special key functions

B. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

K.1.B.1.a. Demonstrate a mastery of age appropriate software operations K-8

K.1.B.1.b. Demonstrate basic computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects people

K.2.A.1.a. Identify and explain that technology is used in their daily lives to do things better or more easily (such as telephone, microwave, television, cameras, and computers)

K.2.A.1.b. Identify examples of how technology affects the environment (including home and school environments)

K.2.A.1.c. Discuss how technology tools are used to meet personal needs in class or small group lesson

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

K.2.B.1.a. Understand and follow the acceptable use policy

K.2.B.1.b. Work cooperatively and collaboratively with others when using technology in the classroom

K.2.B.1.c. Recognize proper care of equipment and software (such as following lab rules, handling equipment with care)

K.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

2. Demonstrate an understanding of current legal standards

K.2.B.2.a. Recognize social and ethical behaviors when using technology (SLM7.1.A1a)

3. Understand current online safety guidelines

K.2.B.3.a. Discuss safety issues related to use of the Internet (SLM 7.1.A2)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Explore and use technology tools in an instructional setting for learning

K.3.A.1.a. Explore and use teacher selected technology tools, including software and hardware, to learn new content or reinforce skills **(CUB, DIB)**

K.3.A.1.b. Demonstrate the use of teacher selected, technology tools that enhance learning **(CUB, WBB)**

K.3.A.1.c Reflect and discuss as part of a larger group on the appropriateness of the selected technology for the given task

B. COLLABORATION

1. Explore and use technology in an instructional setting to encourage collaboration

K.3.B.1.a. Participate in class or small group lessons using technology for shared writing or language experience stories **(WPB, VOB, PB)**

K.3.B.1.b. Participate in class lesson using technology tools *exploring, collecting and displaying* data **(SB, WBB, CUB)**

K.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Explore and use technology in an instructional setting to increase productivity

K.3.C.1.a. Demonstrate the use of appropriate technology tools to support the development of oral language and the writing process **(CUB, WPB, VOB, PB)**

K.3.C.1.b. Apply a variety of concepts, processes, and skills to solve problems **(CUB, WBB, DIB)**

K.3.C.1.c. Identify that a variety of forms of digital content (CDs, DVDs, websites, videos) can be used to learn information about a subject. **(CUB)**

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Explore how technology is used for communication

K.4.A.1.a. Recognize that technology helps with communication at home

K.4.A.1.b. Recognize that technology helps with communication at school

2. Explore the various media formats used in daily life

K.4.A.2.a. Recognize that various media formats are used to communicate ideas (such as

CD, DVD, VHS, digital, and analog)

B. EXPRESSION

1. Explore and use technology in an instructional setting to express ideas

K.4.B.1.a. Demonstrate the use of multimedia tools to express original ideas with print, drawings, digital images, sounds, and/or personal recordings (**CUB, DIB, PB, WPB**)

K.4.B.1.b. Prepare writing and data for display with tools such as visual organizer, word processing or multimedia software (**CUB, PB VOB, WPB**)

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Explore and examine age appropriate information resources available through technology with assistance

K.5.A.1.a. Select relevant information from appropriate technology resources (such as databases library catalogs, and electronic reference materials)) (SLM 2.1.A1b) (**CUB, DB**)

K.5.A.1.b. Collect data

B. ORGANIZE INFORMATION/DATA

1. Use technology tools to organize information

K.5.B.1.a Describe how technology tools are used to organize information /collect data (SLM 3.1.A7; SLM 4.1.A1)

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

K.6.A. Collect information

K.6.B. Compare information from different sources

K.6.C.. Analyze findings

K.6.D. Determine the need for additional information

K.6.E. Draw conclusions

K.6.F. Communicate conclusions, inferences, and ideas

FIRST GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Understand the uses of technology systems

1.1.A.1.a. Recognize and identify the function of the major hardware components in a computer system

1.1.A.1.b. Identify and use functions represented by symbols and icons commonly found in applications

1.1.A.1.c. Understand that there are correct sitting, hand, arm, and fingering positions when keyboarding

B. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

1.1.B.1.a. Demonstrate a mastery of age appropriate software operations K-8

1.1.B.1.b. Demonstrate basic computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects individuals and institutions (home and school)

1.2.A.1.a. Recognize that technologies (such as computers, calculators, television, cameras, PDAs, CD-ROM, and DVD) have influenced daily life past and present

1.2.A.1.b. Identify examples of how technology has affected the environment past and present

1.2.A.1.c. Identify how technology tools have been and are used to meet people's needs

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

1.2.B.1.a. Understand and follow the acceptable use policy

1.2.B.1.b. Work cooperatively and collaboratively with others when using technology in the classroom

1.2.B.1.c. Demonstrate proper care of equipment and software (such as following lab rules, handling equipment with care)

1.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

1.2.B.1.e. Recognize the potential harm of intrusive applications (such as viruses, pop-up windows, etc.)

2. Demonstrate an understanding of current legal standards

1.2.B.2.a. Explore and discuss social and ethical behaviors when using technology (such as appropriate copying and pasting, legal downloading, intellectual property recognition, and obeying copyright laws) (SLM 7.1.A1)

1.2.B.2.b. Discuss the importance of having access to current, accurate information (SLM 7.1.A3a)

1.2.B.2.c. Discuss the importance of respecting the rights of others regarding their work

3. Understand current online safety guidelines

1.2.B.3.a. Discuss safety issues related to use of the Internet (SLM 7.1.A2)

1.2.B.3.b. Recognize safe practices when working online

1.2.B.3.c. Discuss the purpose of technology protection measures including filtering systems

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Use and understand how technology enhances learning

1.3.A.1.a. Demonstrate the use of technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills **(CUB, WBB, DIB)**

1.3.A.1.b. Describe ways selected technology tools are being used to support learning

1.3.A.1.c. Reflect and discuss as part of a larger group on the appropriateness of the selected technology for the given task

B. COLLABORATION

1. Explore and use technology in an instructional setting to encourage collaboration

1.3.B.1.a. Participate in class lessons using technology for brainstorming and shared writing **(WPB, VOB, PB)**

1.3.B.1.b. Participate in class lesson using technology tools *collect, displaying, and interpret* data **(SB, WBB, CUB)**

1.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Use and understand how technology increases productivity

1.3.C.1.a. Describe ways the selected technology tools are being used to accomplish tasks and support learning goals

1.3.C.1.b. Apply a variety of concepts, processes, and skills to solve problems **(CUB, WBB, DIB)**

1.3.C.1.c. Identify electronic sources of information on a topic **(CUB, WBB, DB)**

1.3.C.1.d. Use templates provided by the teacher to complete learning assignments **(CUB, WPB)**

1.3.C.1.e. Edit work created using concept mapping, word processing or presentation software **(CUB, WPB, VOB, PB)**

1.3.C.1.f. Collect, analyze, and display data and information using tools, such as calculators, spreadsheets and graphing programs **(SB)**

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. Communication

1. Use and explain how technology is used for communication

1.4.A.1.a. Identify technology tools that help gather information, share ideas, and respond to questions **(CUB)**

1.4.A.1.b. Demonstrate the use of technology tools identified by the teacher to communicate with various audiences **(EB)**

1.4.A.1.c. Present information with assistance to various audiences including school and community **(CUB, PB, VOB, WPB)**

2. Use and explain the variety of media formats

1.4.A.2.a. Identify various media formats to communicate and share ideas (such as CD, DVD, VHS, digital, and analog)

1.4.A.2.b. Demonstrate the use of various media formats with assistance to communicate and share ideas

B. EXPRESSION

1. Use and understand how technology can be used to express ideas

1.4.B.1.a. Demonstrate the use of multimedia tools to express original ideas with print, drawings, digital images, existing video, sounds, and/or personal recordings **(CUB, DIB, PB, WPB)**

1.4.B.1.b. Prepare writing and data for display with tools such as visual organizer, word processing or multimedia software **(CUB, PB VOB, WPB)**

Standard 5 – Technology for Information Use and Management: Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Explore and examine age appropriate information resources available through technology with assistance

1.5.A.1.a. Select relevant information from appropriate technology resources (such as databases library catalogs, and electronic reference materials)) (SLM 2.1.A1b) **(CUB, DB)**

1.5.A.1.b. Explain evaluation strategies when using electronic resources (such as publication date, fact vs. fiction, author, ease of use) (SLM 3.1.A6)

1.5.A.1.c. Collect data

B. ORGANIZE INFORMATION/DATA

1. Use technology tools to organize information

1.5.B.1.a. Describe how technology tools are used to organize information/collect data (SLM 4.1.A1)

1.5.B.1.b. Participate as part of a class in organizing information using technology tools (such as graphic organizers and slide presentations) (SLM 3.1.A7)

1.5.B.1.c. Reflect as part of a larger group on the appropriateness of the selected technology tool(s) organizing information

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

1.6.A. Collect information

1.6.B. Compare information from different sources

1.6.C.. Analyze findings

1.6.D. Determine the need for additional information

1.6.E. Draw conclusions

1.6.F. Communicate conclusions, inferences, and ideas

SECOND GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Understand the uses of technology systems

2.1.A.1.a. Recognize and identify the function of the major hardware components in a computer system

2.1.A.1.b. Identify and use functions represented by symbols and icons commonly found in applications

2.1.A.1.c. Understand that there are correct sitting, hand, arm, and fingering positions when keyboarding

B. SOFTWARE

1. Demonstration of software and Computer Literacy Sills

2.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8

2.1.B.1.b Demonstrate basic computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects individuals and institutions (home, school, and community)

2.2.A.1.a. Recognize that technologies (such as computers, calculators, television, cameras, PDAs, CD-ROM, and DVD) have influenced daily life past and present

2.2.A.1.b. Identify examples of how technology has affected the environment past and present

2.2.A.1.c. Identify how technology tools have been and are used to meet people’s needs

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

2.2.B.1.a. Understand and follow the acceptable use policy

2.2.B.1.b. Work cooperatively and collaboratively with others when using technology in the classroom

2.2.B.1.c. Practice proper care of equipment and software (such as following lab rules, handling equipment with care)

2.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

2.2.B.1.e. Recognize the potential harm of intrusive applications (such as viruses, pop-up windows, etc.)

2. Demonstrate an understanding of current legal standards

2.2.B.2.a. Demonstrate social and ethical behaviors when using technology (such as appropriate copying and pasting, legal downloading, intellectual property recognition, and obeying copyright laws) (SLM 7.1.A1)

2.2.B.2.b. Discuss the importance of having access to current, accurate information (SLM 7.1.A3a)

2.2.B.2.c. Discuss the importance of respecting the rights of others regarding their work

2.2.B.2.d. Practice strategies for avoiding plagiarism

2.2.B.2.e. Cite sources of text and digital information used (such as URL, author, title, date, publisher when available) (SLM 7.3.A.1.a)

3. Understand current online safety guidelines

2.2.B.3.a. Discuss safety and privacy issues related to use of the Internet (SLM 7.1.A2)

2.2.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)

2.2.B.3.c. Discuss the purpose of technology protection measures including filtering systems

2.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Use and understand how technology enhances learning

2.3.A.1.a Demonstrate the use of technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills **(CUB, WBB, DIB)**

2.3.A.1.b. Describe ways selected technology tools are being used to support learning

2.3.A.1.c Reflect as an individual or as a part of a larger groups on the appropriateness of the selected technology for the given task

2.3.A.1.d. Reflect and discuss how technology tools are used to collect information

2.3.A.1.e. Assess the use of the selected technology for individual learning for the specific task

B. COLLABORATION

1. Explore and use technology in an instructional setting to encourage collaboration

2.3.B.1.a. Explain how selected technology tools are being used to enhance collaboration **(WPB, VOB, PB)**

2.3.B.1.b. Participate in class lesson using technology tools collect, displaying, and interpret data **(SB, WBB, CUB)**

2.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Use and understand how technology increases productivity

2.3.C.1.a. Describe ways the selected technology tools are being used to accomplish tasks and support learning goals

2.3.C.1.b. Apply a variety of concepts, processes, and skills to solve problems **(CUB, WBB, DIB)**

2.3.C.1.c. Examine various electronic retrieval sources obtain information on a topic (**WBB, DB**)

2.3.C.1.d. Use templates provided by the teacher or create new documents to complete learning assignments (**CUB, WPB,PB,VOB,SB**)

2.3.C.1.e. Use suitable electronic resources to edit final copies of text for correctness in language usage and conventions, such as capitalization, punctuation, and spelling (**WPB, wpi**)

2.3.C.1.f. Analyze, and display data and information using tools, such as calculators, spreadsheets and graphing programs (**CUB, SB**)

2.3.C.1.g. Collect data using technology such as online surveys and digital technology (**CUB, WB, SB**)

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Use and explain how technology is used for communication

2.4.A.1.a. Identify technology tools that help gather information, share ideas, and respond to questions (**CUB**)

2.4.A.1.b. Demonstrate the use of technology tools identified by the teacher to communicate with various audiences (**EB**)

2.4.A.1.c. Present information with assistance to various audiences including school and community
(**CUB, PB, VOB, WPB**)

2. Use and explain the variety of media formats

2.4.A.2.a. Communicate with various audiences independently or with assistance using different media formats (**DIB, EB, PB,VOB, WPB**)

2.4.A.2.b Explain the purpose for a chosen media format

B. EXPRESSION

1. Use and understand how technology can be used to express ideas

2.4.B.1.a. Demonstrate the use of multimedia tools to express original ideas with print, drawings, digital images, existing video, sounds, and/or personal recordings **(CUB, DIB, PB, WPB)**

2.4.B.1.b. Prepare writing and data for display with tools such as visual organizer, word processing or multimedia software **(CUB, PB VOB, WPB)**

2.4.B.1.c. Change, edit, and revise graphs, graphics, presentations, and word processing documents **(CUB,DIB,SB,WPB)**

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Explore and examine age appropriate information resources available through technology with assistance

2.5.A.1.a. Select relevant information from appropriate technology resources (such as databases library catalogs, and electronic reference materials)) (SLM 2.1.A1b) **(CUB, DB)**

2.5.A.1.b. Explain evaluation strategies when using electronic resources (such as publication date, fact vs. fiction, author, ease of use) (SLM 3.1.A6)

2.5.A.1.c. Collect data

B. ORGANIZE INFORMATION/DATA

1. Use technology tools to organize information

2.5.B.1.a. Describe how technology tools are used to organize information/collect data (SLM 4.1.A1)

2.5.B.1.b. Apply teacher-selected technology tools to organize information/collect data (SLM 4.3.A.1)

2.5.B.1.c. Participate as part of a class in organizing information using technology tools (such as graphic organizers and slide presentations) (SLM 3.1.A7)

2.5.B.1.d. Reflect as part of a larger group on the appropriateness of the selected technology tool(s) for organizing information

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

- 2.6.A. Collect information
- 2.6.B. Compare information from different sources
- 2.6.C.. Analyze findings
- 2.6.D. Determine the need for additional information
- 2.6.E. Draw conclusions
- 2.6.F. Communicate conclusions, inferences, and ideas

THIRD GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Understand the uses of technology systems

3.1.A.1.a. Recognize and identify the function of the major hardware components in a computer system

3.1.A.1.b. Identify and use functions represented by symbols and icons commonly found in applications

3.1.A.1.c. Understand that there are correct sitting, hand, arm, and fingering positions when keyboarding

3.1.A.1.d. Identify characteristics that describe input devices and output devices and name some devices that can provide input and output.

B. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

3.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8

3.1.B.1.b Demonstrate intermediate computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects people and society

3.2.A.1.a. Explain how technology (such as computers, calculators, television, cameras, PDAs, CD-ROM, and DVD) influences communities

3.2.A.1.b. Identify examples of how technology has affected the environment past and present

3.2.A.1.c. Explain how technology tools have or can be used to meet the needs of communities

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

3.2.B.1.a. Explain the purpose of and follow the acceptable use policy

3.2.B.1.b. Work cooperatively and collaboratively with others when using technology in the classroom

3.2.B.1.c. Demonstrate proper care of equipment and software (such as following lab rules, handling equipment with care)

3.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

3.2.B.1.e. Recognize the potential harm of intrusive applications (such as worms, viruses, spyware, popup windows, etc.)

2. Demonstrate an understanding of current legal standards

3.2.B.2.a. Demonstrate social and ethical behaviors when using technology (such as appropriate copying and pasting, legal downloading, intellectual property recognition, and obeying copyright laws) (SLM 7.3.A1b)

3.2.B.2.b. Discuss the importance of having access to current, accurate information (SLM 7.5.A3a)

3.2.B.2.c. Comply with copyright laws and fair use provisions

3.2.B.2.d. Practice strategies for avoiding plagiarism

3.2.B.2.e. Cite sources of text and digital information used properly (SLM 7.3.A1a)

3. Understand current online safety guidelines

3.2.B.3.a. Explain safety and privacy issues related to use of the Internet (SLM 7.3.A2a)

3.2.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords) (SLM 7.3.A2a)

3.2.B.3.c. Discuss the purpose of technology protection measures including filtering systems

3.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)

3.2.B.3.e. Recognize that the Internet is a global community with guidelines

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Use and explain how the technology enhances learning

3.3.A.1.a. Demonstrate technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills **(CUI, WBI, DII)**

3.3.A.1.b. Explain how selected technology tools are being used to support learning (R/ELA 5.3.D.1f)

3.3.A.1.c. Reflect as an individual on appropriateness of selected technology for the given task

3.3.A.1.d. Describe how technology tools are used to collect information **(WBI,DB)**

3.3.A.1.e. Assess the use of the selected technology for individual learning for the specific task

B. COLLABORATION

1. Use and explain how technology tools encourage collaboration

3.3.B.1.a. Demonstrate use of technology tools to work collaboratively within the classroom **(WPI, VOI, PI, SI)**

3.3.B.1.b. Demonstrate use of technology tools to exchange ideas with individuals or groups outside of the classroom Participate as part of a class in online collaborative projects or information exchanges **(LMS)**

3.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Use and explain how technology tools increase productivity

3.3.C.1.a. Explain how the selected technology tools are being used to accomplish tasks efficiently

3.3.C.1.b. Apply a variety of concepts, processes, and skills to solve problems **(CUI, WBI, DII)**

3.3.C.1.c. Use various electronic information retrieval sources to obtain information on a topic **(WBI, DI)**

3.3.C.1.d. Use templates or create new documents to complete learning assignments **(WPI, PI, VOI, SI)**

3.3.C.1.e. Use suitable electronic resources to edit final copies of texts for correctness in language usage and conventions, such as capitalization, punctuation, and spelling **(WBI, WPI)**

3.3.C.1.f. Collect, analyze, and display data and information using tools, such as calculators, spreadsheets, and graphing programs **(WBI, SI)**

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Use technology for communication

3.4.A.1.a. Explain how communication tools help gather information, share ideas, and respond to questions when communicating with various audiences, including school, community, parents, and experts **(CUI)**

3.4.A.1.b. Use technology tools identified by the teacher to communicate with various audiences **(EI)**

3.4.A.1.c. Present information independently or with assistance to various audiences including school and community **(CUI, PI, VOI, WPI)**

2. Use and explain the purposes of different media formats

3.4.A.2.a. Communicate independently with various audiences using different media formats **(DII, EI, PI, VOI, WPI)**

3.4.A.2.b. Explain the purpose for a chosen media format

B. Expression

1. Use and explain how the technology can be used to express ideas

3.4.B.1.a. Use multimedia and publishing tools to express original ideas with print, drawings, digital images, existing or original video, sounds, and/or personal recordings **(CUI, DII, PI, WPI)**

3.4.B.1.b. Present ideas and information in formats that appeal to a specific audience. **(CUI, PI, VOI, WPI)**

3.4.B.1.c. Change, edit, and revise graphs, graphics, presentations, and word processing documents **(CUI, DII, SI, WPI)**

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Use and evaluate information resources available through technology independently or with assistance

3.5.A.1.a. Select relevant information from appropriate technology resources (SLM 2.3.A1b)

3.5.A.1.b. Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source credibility, ease of use) (SLM 3.3.A6)

3.5.A.1.c. Collect data

3.5.A.1.d. Examine library catalog search strategies **(DI)**

3.5.A.1.d. Identify search strategies for age appropriate Web search engines/directories (SLM 3.3.A3b) **(DI)**

B. ORGANIZE INFORMATION/DATA

1. Use and evaluate technology tools to organize information

3.5.B.1.a. Describe how technology tools are used to organize information/collect data

3.5.B.1.b. Apply technology tools independently or with assistance to support data collection (SLM 4.3.A1)

3.5.B.1.c. Demonstrate technology tools independently or with assistance to support notetaking (SLM 3.3.A7)

3.5.B.1.d. Evaluate the effectiveness of technology tools for organizing information

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

3.6.A. Collect information

3.6.B. Compare information from different sources

3.6.C.. Analyze findings

3.6.D. Determine the need for additional information

3.6.E. Draw conclusions

3.6.F. Communicate conclusions, inferences, and ideas

FOURTH GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Demonstrate knowledge of technology concepts and systems

4.1.A.1.a. Identify strategies for managing everyday hardware and software problems

4.1.A.1.b. Identify types of files by their icons and extensions

4.1.A.1.c. Understand that there are correct sitting, hand, arm, and fingering positions when keyboarding

B. SOFTWARE

2. Demonstration of software and Computer Literacy Skills

4.1.B.2.a. Demonstrate a mastery of age appropriate software operations K-8

4.1.B.2.b. Demonstrate intermediate computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects people and society

4.1.A.1.a. Explain how technology (such as computers, cameras, calculators, television, CDROM, and DVD) influences communities

4.1.A.1.b. Identify examples of how technology has affected the environment past and present

4.1.A.1.c. Explain how technology tools have been used to meet the needs of communities

4.1.A.1.d. Recommend ways technology can be used to meet the needs of communities

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

4.1.B.1.a. Explain the purpose of and follow the acceptable use policy

4.1.B.1.b. Work cooperatively and collaboratively with others when using technology

4.1.B.1.c. Demonstrate proper care of equipment and software (such as following lab rules, handling equipment with care, appropriate printing of resources)

4.1.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

4.1.B.1.e. Recognize the potential harm of intrusive applications (such as worms, viruses, spyware, pop-up windows, etc.)

2. Demonstrate an understanding of current legal standards

4.1.B.2.a. Demonstrate social and ethical behaviors when using technology (such as appropriate copying and pasting, legal downloading, intellectual property recognition, and obeying copyright laws) (SLM 7.5.A1)

4.1.B.2.b. Discuss the importance of having access to current, accurate information (SLM 7.5.A3b)

4.1.B.2.c. Comply with copyright laws and fair use provisions

4.1.B.2.d. Practice strategies for avoiding plagiarism when using digital content (SLM 7.5.A1a)

4.1.B.2.e. Cite electronic sources of text and digital information properly (R/ELA 4.4.7e) (SLM 7.5.A1c)

3. Understand current Internet safety guidelines

4.1.B.3.a. Explain safety and privacy issues related to the use of the Internet (SLM 7.5.A2.a)

4.1.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)

4.1.B.3.c. Explain the purpose of technology protection measures including filtering systems

4.1.B.2.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)

4.1.B.3.c. Recognize that the Internet offers access to multiple digital communities with differing guidelines (SLM 7.5.A3a)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Use and explain how technology tools enhance learning

4.3.A.1.a Demonstrate technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills. **(CUI, WBI, DII)**

4.3.A.1.b Explain how selected technology tools are being used to support learning **(CUI)**

4.3.A.1.c Reflect as an individual on appropriateness of selected technology for the given task

4.3.A.1.d Describe how technology tools are used to collect information **(WBI, DI)**

4.3.A.1.e Assess the use of the selected technology for individual learning of the specific task

B. COLLABORATION

1. Use and explain how selected technology tools encourage collaboration

4.3.B.1.a Demonstrate technology tools to work collaboratively within the classroom **(WPI, PI, VOI, SI, DI)**

4.3.B.1.b Demonstrate technology tools to exchange ideas with individuals or groups outside of the classroom (LMS)

4.3.B.1.c Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Use and explain how technology tools increase productivity

4.3.C1.a Explain how the selected technology tools are being used to accomplish tasks efficiently (**CUI**)

4.3.C.1.b Apply a variety of concepts, processes and skills to solve *problems* (**CUI, WBI, DII**)

4.3.C.1.c Use various electronic information retrieval sources to *obtain information on a topic* (**WBI, DI**)

4.3.C.1.d Create new documents to complete learning assignments (**WPI, PI, VOI, SI**)

4.3.C.1.e Use suitable electronic resources to edit final copies of texts for correctness in language usage and conventions, such as capitalization, punctuation, and spelling (**WBI, WPI**)

4.3.C.1.f Collect, analyze, and display data and information using tools, such as calculators, spreadsheets, graphing programs, and databases (**CUI, WBI, SI, DI**)

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Use technology for communication

4.4.A.1.a Demonstrate the use of communication tools identified by the teacher to help gather information, share ideas, and respond to questions when communicating with various audiences, including school, community, parents, and experts (**CUI, EI, LMS**)

4.4.A.1.b Present information independently or with assistance to various audiences including school and community (**CUI, LMS, PI, VOI, WPI**)

2. Use and explain the purposes of different media formats

4.4.A.2.a Communicate independently with various audiences using different media formats **(CUI, DII, LMS, PI, VOI, SSB, WBB, WPI)**

4.4.A.2.b Explain the purpose for a chosen media format

B. EXPRESSION

1. Use and explain how technology can be used to express ideas

4.4.B.1.a Demonstrate multimedia and publishing tools to express original ideas with print, drawings, digital images, existing or original video, sounds, and/or personal recordings **(CUI, DII, PI, VOI, WBB, WPI)**

4.4.B.1.b Present ideas and information in formats that appeal to a specific audience **(CUI, PI, VOI, WBB, WPI)**

4.4.B.1.c Change, edit, and revise graphs, graphics, presentations and word processing documents **(CUI, DII, SI, WBB, WPI)**

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION

1. Use and evaluate information resources available through technology independently or with assistance

4.5.A.1.a Select relevant information from appropriate technology resources (SLM 2.5.A1b)

4.5.A.1.b Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source, credibility, ease of use) (SLM 3.5.A6)

4.5.A.1.c Collect data

4.5.A.1.d Apply library catalog search strategies (SLM 3.5.A3b) **(DI)**

4.5.A.1.e Apply search strategies for age appropriate Web search engines/directories (SLM 3.5.A3b) **(DI)**

B. ORGANIZE INFORMATION

1. Use and evaluate technology tools to organize information

- 4.5.B.1.a Describe how technology tools are used to organize information (SLM 4.5.A1)
- 4.5.B.1.b Apply technology tools independently to support data collection (SLM 3.5.A7)
- 4.5.B.1.c Use technology tools independently to support note taking (SLM 3.5.A7)
- 4.5.B.1.d Evaluate the effectiveness of technology tools for organizing information

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

- 4.6.A. Collect information
- 4.6.B. Compare information from different sources
- 4.6.C.. Analyze findings
- 4.6.D. Determine the need for additional information
- 4.6.E. Draw conclusions
- 4.6.F. Communicate conclusions, inferences, and ideas

FIFTH GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Demonstrate knowledge of technology systems

5.1.A.1.a Identify strategies for managing everyday hardware and software problems

5.1.A.1.b Identify types of files by their icons and extensions

5.1.A.1.c Understand that there are correct sitting, hand, arm, and fingering positions when keyboarding

C. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

5.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8

5.1.B.1.b Demonstrate intermediate computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects the individual and society

5.2.A.1.a Explain technology's influence on the individual and society

5.2.A.1.b Identify examples of technology's impact on the environment

5.2.A.1.c Explain how technology tools have been used to meet the needs of societies

5.2.A.1.d Recommend ways technology can be used to meet the needs of societies

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

- 5.2.B.1.a. Explain the purpose of and follow the acceptable use policy
- 5.2.B.1.b. Work cooperatively and collaboratively with others when using technology
- 5.2.B.1.c. Practice proper care of equipment and software (such as following lab rules, handling equipment with care, appropriate printing of resources)
- 5.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)
- 5.2.B.1.e. Recognize the potential harm of intrusive applications (such as worms, viruses, spyware, popup windows, etc.)

2. Demonstrate an understanding of current legal standards

- 5.2.B.2.a. Comply with copyright laws and fair use provisions when using digital content (SLM 7.5.A.2.b)
- 5.2.B.2.b. Demonstrate use of electronic resources appropriately (such as paraphrasing) (SLM 7.5.A1a)
- 5.2.B.2.c. Cite electronic sources of text and digital information properly (such as MLA, APA, Chicago) (SLM 7.5.A1c)

3. Understand current Internet safety guidelines

- 5.2.B.3.a. Explain safety and privacy issues related to use of the Internet (SLM 7.5.A2a)
- 5.2.B.3.b. Use safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)
- 5.2.B.3.c. Explain the purpose of technology protection measures including filtering systems
- 5.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)
- 5.2.B.3.e. Recognize that the Internet offers access to multiple digital communities with differing guidelines (SLM 7.5.A3a)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Select and use technology tools to enhance learning

5.3.A.1.a. Demonstrate technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills. **(CUP, WBP, DP, DII)**

5.3.A.1.b. Explain why specific technology tools were selected to support learning **(CUP, WPP, WBP, VOP, SP, DP)**

5.3.A.1.c. Assess the use of the selected technology for individual learning of the specific task

B. COLLABORATION

1. Select and use technology tools to encourage collaboration

5.3.B.1.a. Demonstrate technology tools to work collaboratively within the school community **(WPP, PP, VOP, SP, DP)**

5.3.B.1.b. Demonstrate technology tools to exchange ideas with individuals or groups outside of the school community **(LMS)**

5.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Select and use technology tools to increase productivity

5.3.C.1.a. Explain why the selected technology tools are being used to accomplish tasks efficiently **(CUP)**

5.3.C.1.b. Input and analyze information in a spreadsheet or database **(SP, DP)**

5.3.C.1.c. Apply a variety of concepts, processes and skills to solve problems **(CUP, WBP, DIP)**

5.3.C.1.d. Create new documents to complete learning assignments and demonstrate new understanding **(WPP, PP, VOP, SP)**

5.3.C.1.e. Use suitable electronic resources to refine presentations and edit texts for effective and appropriate use of language conventions, such as capitalization, punctuation, spelling, and pronunciation **(WPP, PP, WBP)**

5.3.C.1.f. Collect, manipulate, analyze, and display data and information using tools, such as calculators and computers **(CUP, WBP, SP, DP)**

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Select and use technology for communication

5.4.A.1.a. Demonstrate use communication tools (such as e-mail, discussion boards, online conferences, Learning Management Systems, portfolios) to gather information, share ideas, and respond to questions **(CUP, EP, LMS)**

5.4.A.1.b. Present information independently to various audiences **(CUP, LMS, PP, VOP, WPP)**

5.4.A.1.c. Evaluate the appropriateness of media formats for various purposes

B. EXPRESSION

1. Select and use technology to express ideas

5.4.B.1.a. Select and apply the appropriate multimedia and publishing tools to express original ideas with print, drawings, digital images, video, sounds, and/or personal recordings **(CUP, DIP, PP, VOP, WBI, WPP)**

5.4.B.1.b. Present ideas and information in formats that appeal to a specific audience **(CUP, PP, VOP, WBI, WPP)**

5.4.B.1.c. Change, edit, and revise graphs, graphics, presentations and word processing documents **(CUP, DIP, SI, WBI, Grade 6 Grade 7 Grade 8 4.5.A.3b) (CUI, DII, SI, WBB, WPI)**

5.4.B.1.d. Evaluate product design based on purpose, audience, and format **WPP)**

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION

1. Select and use information resources available through technology independently or with assistance

5.5.A.1.a. Select relevant information from appropriate technology resources (SLM 2.5.A1b)

5.5.A.1.b. Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source, credibility, ease of use) (SLM 3.5.A6)

5.5.A.1.c. Collect data

5.5.A.1.d. Apply library catalog search strategies (SLM 3.5.A3b) **(DI)**

5.5.A.1.e. Apply search strategies for age appropriate Web search engines/directories (SLM 3.5.A3b) **(DI)**

B. ORGANIZE INFORMATION

1. Select and use technology tools to organize information

5.5.B.1.a. Explain why specific technology tools were selected to organize information (SLM 4.5.A1)

5.5.B.1.b. Apply technology tools to support data collection (SLM 3.5.A7)

5.3.B.1.c. Use technology tools to support note-taking (SLM 3.5.A7)

5.5.B.1.d. Evaluate the use of the selected technology for the specific task

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

5.6.A. Collect information

5.6.B. Compare information from different sources

5.6.C.. Analyze findings

5.6.D. Determine the need for additional information

5.6.E. Draw conclusions

5.6.F. Communicate conclusions, inferences, and ideas

SIXTH GRADE

Standard 1 – Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Demonstrate knowledge of technology systems

- 6.1.A.1.a Identify strategies for managing everyday hardware and software problems
- 6.1.A.1.b Identify types of files by their icons and extensions
- 6.1.A.1.c Use keyboard and mouse effectively and efficiently

B. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

- 6.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8
- 6.1.B.1.b Demonstrate proficient computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Explain how technology affects the individual and society

- 6.2.A.1.a Explain technology's influence on the individual and society
- 6.2.A.1.b Identify examples of technology's impact on the environment
- 5.2.A.1.c Explain how technology tools have been used to meet the needs of societies
- 2.6.A.1.c Recommend ways technology can be used to meet the needs of societies

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

- 6.2.B.1.a. Explain the purpose of and follow the acceptable use policy
- 6.2.B.1.b. Work cooperatively and collaboratively with others when using technology
- 6.2.B.1.c. Practice proper care of equipment and software (such as following lab rules, handling equipment with care, appropriate printing of resources)
- 6.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)
- 6.2.B.1.e. Explain the potential harm of intrusive applications (such as worms, viruses, spyware, popup windows, etc.) and safeguards for limiting exposure to these

2. Demonstrate an understanding of current legal standards

- 6.2.B.2.a. Comply with copyright laws and fair use provisions when using digital content (SLM 7.8.A1b)
- 6.2.B.2.b. Demonstrate use of electronic resources appropriately (such as paraphrasing) (SLM 7.8.A1a)
- 6.2.B.2.c. Cite electronic sources of text and digital information properly (such as MLA, APA, Chicago) (SLM 7.8.A1c)

3. Understand current Internet safety guidelines

- 6.2.B.3.a. Explain and practice safety and privacy guidelines related to use of the Internet
- 6.2.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)
- 6.2.B.3.c. Explain the importance of firewalls and filtering systems
- 6.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)
- 6.2.B.3.e. Recognize that the Internet offers access to multiple digital communities with differing guidelines (SLM 7.8.A3a)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Select and use technology tools to enhance learning

6.3.A.1.a. Demonstrate technology tools, including software and hardware, from a range of teacher selected options to learn new content or reinforce skills. **(CUP, WPP, WBP, DIP)**

6.3.A.1.b. Explain why specific technology tools were selected to support learning **(CUP, WPP, WBP, VOP, SP, DP, DIP)**

6.3.A.1.c. Assess the use of the selected technology for individual learning of the specific task

B. COLLABORATION

1. Select and use technology tools to encourage collaboration

6.3.B.1.a. Demonstrate technology tools to work collaboratively within the school community **(WPP, PP, VOP, SP, DP)**

6.3.B.1.b. Demonstrate technology tools to exchange ideas with individuals or groups outside of the school community (LMS)

6.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Select and use technology tools to increase productivity

6.3.C.1.a. Explain why the selected technology tools are being used to accomplish tasks efficiently **(CUP)**

6.3.C.1.b. Input and analyze information in a spreadsheet or database **(SP, DP)**

6.3.C.1.c. Apply a variety of concepts, processes and skills to solve problems **(CUP, WBP, DIP)**

6.3.C.1.d. Create new documents to complete learning assignments and demonstrate new understanding **(WPP, PP, VOP, SP)**

6.3.C.1.e. Use suitable electronic resources to refine presentations and edit texts for effective and appropriate use of language conventions, such as capitalization, punctuation, spelling, and pronunciation **(WPP, PP, WBP)**

6.3.C.1.f. Collect, manipulate, analyze, and display data and information using tools, such as calculators and computers **(CUP, WBP, SP, DP)**

Standard 4 - Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Select and use technology for communication

6.4.A.1.a. Demonstrate use communication tools (such as e-mail, discussion boards, online conferences, Learning Management Systems, portfolios) to gather information, share ideas, and respond to questions **(CUP, EP, LMS)**

6.4.A.1.b. Present information independently to various audiences **(CUP, LMS, PP, VOP, WPP)**

6.4.A.1.c. Evaluate the appropriateness of media formats for various purposes

B. EXPRESSION

1. Select and use technology to express ideas

6.4.B.1.a. Select and apply the appropriate multimedia and publishing tools to express original ideas with print, drawings, digital images, video, sounds, and/or personal recordings **(CUP, DIP, PP, VOP, WBI, WPP)**

6.4.B.1.b. Present ideas and information in formats that appeal to a specific audience **(CUP, PP, VOP, WBI, WPP)**

6.4.B.1.c. Change, edit, and revise graphs, graphics, presentations and word processing documents **(CUP, DIP, SI, WBI, WPP)**

6.4.B.1.d. Evaluate product design based on purpose, audience, and format **(WPP)**

Standard 5 – Technology for Information Use and Management: Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION

1. Use and evaluate information resources available through technology independently or with assistance

6.5.A.1.a. Select relevant information from appropriate technology resources (SLM 2.5.A1b)

6.5.A.1.b. Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source, credibility, ease of use) (SLM 3.5.A6)

6.5.A.1.c. Collect Data

6.5.A.1.d. Refine library catalog search strategies (SLM 3.5.A3b) **(DP)**

6.5.A.1.e. Refine search strategies for Web search engines/directories (SLM 3.5.A3b) **(DP)**

B. ORGANIZE INFORMATION

1. Select and use technology tools to organize information

6.5.B.1.a. Explain why specific technology tools were selected to organize information (SLM 4.8.A1)

6.5.B.1.b. Apply appropriate technology tools to support information organization (SLM 3.8.A7)

6.5.B.1.c. Evaluate the use of the selected technology for the specific task

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

6.6.A. Collect information

6.6.B. Compare information from different sources

6.6.C.. Analyze findings

6.6.D. Determine the need for additional information

6.6.E. Draw conclusions

6.6.F. Communicate conclusions, inferences, and ideas

SEVENTH GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Demonstrate knowledge of technology systems

7.1.A.1.a Describe strategies for identifying, solving, and preventing routine hardware and software problems that occur during everyday technology use

7.1.A.1.b Apply utility programs to convert formats, as necessary, for effective use in Web, video, audio, graphic, presentation, word-processing, database, publication, and spreadsheet applications

7.1.A.1.c Use keyboard and mouse effectively and efficiently

7.1.A.1.d Explain how network resources are accessed, controlled, connected, and used effectively and efficiently (e.g., FTP/Web publishing, wireless networks, USB, firewire, etc.)

C. SOFTWARE

1. Demonstration of software and Computer Literacy Skills

7.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8

7.1.B.1.b Demonstrate proficient computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

D. TECHNOLOGY AND SOCIETY

1. Evaluate how technology affects the individual and society

7.2.A.1.a. Evaluate technology's influence on the individual and society

7.2.A.1. b. Evaluate technology's impact on the environment

7.2.A.1.c. Evaluate the use of technology to solve a societal issue

7.2.A.1.d. Propose a technological solution to a societal issue

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

7.2.B.1.a. Explain the purpose of and follow the acceptable use policy

7.2.B.1.b. Work cooperatively and collaboratively with others when using technology

7.2.B.1.c. Practice proper care of equipment and software (such as following lab rules, handling equipment with care, appropriate printing of resources)

7.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

7.2.B.1.e. Explain the potential harm of intrusive applications (such as worms, viruses, spyware, popup windows, etc.) and safeguards for limiting exposure to these

2. Demonstrate an understanding of current legal standards

7.2.B.2.a. Comply with copyright laws and fair use provisions when using digital content (SLM 7.8.A1b)

7.2.B.2.b. Use electronic resources appropriately (such as paraphrasing) (SLM 7.8.A1a)

7.2.B.2.c. Cite electronic sources of text and digital information properly (such as MLA, APA, Chicago) (SLM 7.8.A1c)

3. Understand current online safety guidelines

7.2.B.3.a. Explain safety and privacy guidelines and practice privacy guidelines as related to Internet use

7.2.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)

7.2.B.3.c. Explain the importance of firewalls and filtering systems

7.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)

7.2.B.3.e. Recognize that the Internet offers access to multiple digital communities with differing guidelines (SLM 7.8.A3a)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Select and use technology tools to enhance learning

7.3.A.1.a. Demonstrate the use of technology tools, including software and hardware, to learn new content or reinforce skills **(CUP, WBP, DIP, WPP)**

7.3.A.1.b. Defend the selection of a specific technology tool to complete a learning task **(CUP, WPP, WBP, VOP, SP, DP)**

B. COLLABORATION

1. Select and use technology tools to encourage collaboration

7.3.B.1.a. Demonstrate the use of technology tools to work collaboratively within the school community **(WPP, PP, VOP, SP, DP)**

7.3.B.1.b. Demonstrate the use of technology tools to exchange ideas with individuals or groups outside of the school community

7.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Select and use technology tools to increase productivity

7.3.C.1.a. Defend the selected technology tools to complete tasks efficiently **(CUP)**

7.3.C.1.b. Input and analyze information in a spreadsheet or database **(SP, DP)**

7.3.C.1.c. Apply a variety of concepts, processes and skills to solve problems **(CUP, WBP, DIP)**

7.3.C.1.d. Create new documents to complete learning assignments and demonstrate new understanding (**WPP, PP, VOP, SP**)

7.3.C.1.e. Use suitable electronic resources to refine presentations and edit texts for effective and appropriate use of language conventions, such as capitalization, punctuation, spelling, and pronunciation, word selection and paragraph construction (**WPP, PP, WBP**)

7.3.C.1.f. Collect, manipulate, analyze, and display data and information using tools, such as calculators and computers (**CUP, WBP, SP, DP**)

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Select and use technology for communication

7.4.A.1.a. Demonstrate the use of communication tools (such as e-mail, discussion boards, online conferences, Learning Management Systems, portfolios) to help gather information, share ideas, and respond to questions (**CUP, EP, LMS**)

7.4.A.1.b. Present information independently to various audiences (**CUP, LMS, PP, VOP, WPP**)

7.4.A.1.c. Evaluate the appropriateness of media formats for various purposes

B. EXPRESSION

1. Select and use technology to express ideas

7.4.B.1.a. Select and apply the appropriate multimedia and publishing tools to express original ideas with print, drawings, digital images, video, sounds, and/or personal recordings (**CUP, DIP, PP, VOP, WBI, WPP**)

7.4.B.1.b. Present ideas and information in formats that appeal to a specific audience (**CUP, PP, VOP, WBI, WPP**)

7.4.B.1.c. Change, edit, and revise graphs, graphics, presentations and word processing documents (**CUP, DIP, SP, WBI, WPP**)

7.4.B.1.d. Evaluate product design based on purpose, audience, and format

Standard 5 – Technology for Information Use and Management:

Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Select and use information resources available through technology

7.5.A.1.a. Select relevant information from appropriate technology resources (SLM 2.3.A1b)

7.5.A.1.b. Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source, credibility, ease of use) (SLM 3.8.A6)

7.5.A.1.c. Collect data

7.5.A.1.d. Refine library catalog search strategies (SLM3.8.A3b)(**DP**)

7.5.A.1.e Refine strategies for Web search engines/directories (SLM3.8.a3B) (**DP**)

B. ORGANIZE INFORMATION/DATA

1. Select and use technology tools to organize information

7.5.B.1.a. Defend the selection of the specific technology tool to organize information (SLM 4.8.A1)

7.5.A.1.b Apply appropriate technology to support information organization (SLM3.8.A7)

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

7.6.A. Collect information

7.6.B. Compare information from different sources

7.6.C.. Analyze findings

7.6.D. Determine the need for additional information

7.6.E. Draw conclusions

7.6.F. Communicate conclusions, inferences, and ideas

EIGHTH GRADE

Standard One– Technology Systems: Develop foundations in the understanding and uses of technology systems

A. SYSTEMS

1. Demonstrate knowledge of technology systems

8.1.A.1.a Describe strategies for identifying, solving, and preventing routine hardware and software problems that occur during everyday technology use

8.1.A.1.b Apply utility programs to convert formats, as necessary, for effective use in Web, video, audio, graphic, presentation, word-processing, database, publication, and spreadsheet applications

8.1.A.1.c Use keyboard and mouse effectively and efficiently

8.1.A.1.d Explain how network resources are accessed, controlled, connected, and used effectively and efficiently (e.g., FTP/Web publishing, wireless networks, USB, firewire, etc.)

B. SOFTWARE

1. Demonstration of software and Computer Literacy Sills

8.1.B.1.a Demonstrate a mastery of age appropriate software operations K-8

8.1.B.1.b Demonstrate proficient computer literacy skills as outlined in Computer Literacy Standards

Standard 2.0 – Digital Citizenship: Demonstrate an understanding of the history of technology and its impact on society, and practice ethical, legal, and responsible use of technology to assure safety

A. TECHNOLOGY AND SOCIETY

1. Evaluate how technology affects the individual and society

8.2.A.1.a. Evaluate technology's influence on the individual and society

8.2.A.1. b. Evaluate technology's impact on the environment

8.2.A.1.c. Evaluate the use of technology to solve a societal issue

8.2.A.1.d. Propose a technological solution to a societal issue

B. LEGAL AND ETHICAL ISSUES

1. Practice responsible and appropriate use of technology systems, software, and information

8.2.B.1.a. Explain the purpose of and follow the acceptable use policy

8.2.B.1.b. Work cooperatively and collaboratively with others when using technology

8.2.B.1.c. Practice proper care of equipment and software (such as following lab rules, handling equipment with care, appropriate printing of resources)

8.2.B.1.d. Use safe and correct security procedures (such as protecting password and user ID)

8.2.B.1.e. Explain the potential harm of intrusive applications (such as worms, viruses, spyware, popup windows, etc.) and safeguards for limiting exposure to these

2. Demonstrate an understanding of current legal standards

8.2.B.2.a. Comply with copyright laws and fair use provisions when using digital content (SLM 7.8.A1b)

8.2.B.2.b. Use of electronic resources appropriately (such as paraphrasing) (SLM 7.8.A1a)

8.2.B.2.c. Cite electronic sources of text and digital information properly (such as MLA, APA, Chicago) (SLM 7.8.A1c)

3. Understand current online safety guidelines

8.2.B.3.a. Explain safety and privacy issues and practice privacy guidelines as related to Internet use

8.2.B.3.b. Demonstrate safe and correct security procedures when working online (such as not disclosing personal information and protecting passwords)

8.2.B.3.c. Explain the importance of firewalls and filtering systems

8.2.B.3.d. Describe procedures for exiting an inappropriate site (such as clicking the home, turning off monitor, notifying an adult)

8.2.B.3.e. Recognize that the Internet offers access to multiple digital communities with differing guidelines (SLM 7.8.A3a)

Standard 3 – Technology for Learning and Collaboration: Use a variety of technologies for learning and collaboration

A. LEARNING

1. Select and use technology tools to enhance learning

8.3.A.1.a. Demonstrate the use of technology tools, including software and hardware, to learn new content or reinforce skills **(CUP, WBP, DIP)**

8.3.A.1.b. Defend the selection of a specific technology tool to complete a learning task **(CUP, WPP, VOP, SP, DP)**

B. COLLABORATION

1. Select and use technology tools to encourage collaboration

8.3.B.1.a. Demonstrate the use of technology tools to work collaboratively within the school community **(WPP, PP, VOP, SP, DP)**

8.3.B.1.b. Demonstrate the use of technology tools to exchange ideas with individuals or groups outside of the school community

8.3.B.1.c. Articulate the advantages of collaboration supported by technology tools

C. PRODUCTIVITY

1. Select and use technology tools to increase productivity

8.3.C.1.a. Defend the selected technology tools to complete tasks efficiently **(CUP)**

8.3.C.1.b. Input and analyze information in a spreadsheet or database **(SP, DP)**

8.3.C.1.c. Apply a variety of concepts, processes and skills to solve problems **(CUP, WBP, DIP)**

8.3.C.1.d. Create new documents to complete learning assignments and demonstrate new understanding **(WPP, PP, VOP, SP)**

8.3.C.1.e. Demonstrate the use of suitable electronic resources to refine presentations and edit texts for effective and appropriate use of language conventions, such as capitalization, punctuation, spelling, and pronunciation, word selection and paragraph organization **(WPP, PP, WBP)**

8.3.C.1.f Collect, manipulate, analyze, and display data and information using tools, such as calculators and computers **(CUP,WBP,SP,DP)**

Standard 4- Technology for Communication and Expression: Use technology to communicate information and express ideas using various media formats

A. COMMUNICATION

1. Select and use technology for communication

8.4.A.1.a Demonstrate the use of communication tools (such as e-mail, discussion boards, online conferences, Learning Management Systems, portfolios) to help gather information, share ideas, and respond to questions **(CUP, EP)**

8.4.A.1.b. Present information independently to various audiences **(CUP, PP, VOP, WPP)**

8.4.A.1.c. Evaluate the appropriateness of media formats for various purposes

B EXPRESSION

1. Select and use technology to express ideas

8.4.B.1.a. Select and apply the appropriate multimedia and publishing tools to express original ideas with print, drawings, digital images, video, sounds, and/or personal recordings **(CUP, DIP, PP, VOP, WBI, WPP)**

8.4.B.1.b. Present ideas and information in formats that appeal to a specific audience **(CUP, PP, VOP, WBI, WPP)**

8.4.B.1.c. Change, edit, and revise graphs, graphics, presentations and word processing documents **(CUP, DIP, SP, WBP, WPP)**

8.4.B.1.d. Evaluate product design based on purpose, audience, and format

Standard 5 – Technology for Information Use and Management: Use technology to locate, evaluate, gather, and organize information and data.

A. LOCATE, EVALUATE, AND GATHER INFORMATION/DATA

1. Select and use information resources available through technology

8.5.A.1.a. Select relevant information from appropriate technology resources (SLM 2.3.A1b)

8.5.A.1.b. Apply evaluation strategies when using electronic resources (such as publication/copyright date, fact vs. fiction, source, credibility, ease of use) (SLM 3.8.A6)

8.5.A.1.c. Collect data

8.5.A.1.d. Refine library catalog search strategies (SLM3.8.A3b)(**DP**)

8.5.A.1.e Refine strategies for Web search engines/directories (SLM3.8.a3B) (**DP**)

B. ORGANIZE INFORMATION/DATA

1. Select and use technology tools to organize information

8.5.B.1.a. Defend the selection of the specific technology tool to organize information (SLM 4.8.A1)

8.5.A.1.b Use appropriate technology to support information organization (SLM3.8.A7)

Standard 6.0 – Technology for Problem-Solving and Decision-

Making: Demonstrate ability to use technology and develop strategies to solve problems and make informed decisions

8.6.A. Collect information

8.6.B. Compare information from different sources

8.6.C.. Analyze findings

8.6.D. Determine the need for additional information

8.6.E. Draw conclusions

8.6.F. Communicate conclusions, inferences, and ideas