

K

Technology Applications

Texas Essential Knowledge and Skills (TEKS)

Curriculum Connections
Planning Tool

Quick Reference Sheet



Language Arts

K.15F use available technology to compose text

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

K.13D use tools such as real objects, manipulatives, and technology to solve problems

K.14A explain and record observations using objects, words, pictures, numbers, and technology

K.15A reason and support his or her thinking using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support their investigations.

K.4B make observations using tools including hand lenses, balances, cups, bowls, and computers

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

K.15B obtain information about a topic using a variety of visual sources such as pictures, symbols, television, maps, computer images, print material, and artifacts

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Language Arts

1.19E use available technology to compose text

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

1.11D use tools such as real objects, manipulatives, and technology to solve problems

1.12A explain and record observations using objects, words, pictures, numbers, and technology

1.13A reason and support his or her thinking using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support their investigations.

1.4A collect information using tools including hand lenses, clocks, computers, thermometers, and balances

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

1.17B obtain information about a topic using a variety of visual sources such as pictures, graphics, television, maps, computer images, literature, and artifacts

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Language Arts

- 2.7B read from a variety of genres for pleasure and to acquire information from both print and electronic sources
- 2.8D use resources and references such as beginners' dictionaries, glossaries, available technology, and context to build word meanings and to confirm pronunciation of words
- 2.10B demonstrate understanding of informational text in various ways such as through writing, illustrating, developing demonstrations, and using available technology
- 2.12D use multiple sources, including print such as an encyclopedia, technology, and experts, to locate information that addresses questions
- 2.12E interpret and use graphic sources of information such as maps, charts, graphs, and diagrams
- 2.18E use available technology for aspects of writing, including word processing, spell checking, and printing
- 2.20C take simple notes from relevant sources such as classroom guests, information books, and media sources
- 2.20D compile notes into outlines, reports, summaries, or other written efforts using available technology

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

- 2.12D use tools such as real objects, manipulatives, and technology to solve problems
- 2.13A explain and record observations using objects, words, pictures, numbers, and technology
- 2.14A reason and support his or her thinking using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support their investigations.

- 2.4A collect information using tools including rulers, meter sticks, measuring cups, clocks, hand lenses, computers, thermometers, and balances

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology

- 2.17B obtain information about a topic using a variety of visual sources such as pictures, graphics, television, maps, computer software, literature, reference sources, and artifacts
- 2.17C use various parts of a source, including the table of contents, glossary, and index, as well as keyword computer searches, to locate information

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Language Arts

- 3.7B read from a variety of genres for pleasure and to acquire information from both print and electronic sources
- 3.8C use resources and references such as beginners' dictionaries, glossaries, available technology, and context to build word meanings and to confirm pronunciations of words
- 3.10B demonstrate understanding of informational text in a variety of ways through writing, illustrating, developing demonstrations, and using available technology
- 3.12D use multiple sources, including print such as an encyclopedia, technology, and experts, to locate information that addresses questions
- 3.18E use available technology for aspects of writing such as word processing, spell checking, and printing
- 3.20C take simple notes from relevant sources such as classroom guests, books, and media sources
- 3.20D compile notes into outlines, reports, summaries, or other written efforts using available technology

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

- 3.15D use tools such as real objects, manipulatives, and technology to solve problems
- 3.16A explain and record observations using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support scientific investigations.

- 3.2A plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
- 3.4A collect and analyze information using tools including calculators, microscopes, cameras, safety goggles, sound recorders, clocks, computers, thermometers, hand lenses, meter sticks, rulers, balances, magnets, and compasses

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

- 3.16A obtain information, including historical and geographic data about the community, using a variety of print, oral, visual, and computer sources
- 3.16D use various parts of a source, including the table of contents, glossary, and index, as well as keyword computer searches, to locate information

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Language Arts

- 4.9C use multiple reference aids, including a thesaurus, a synonym finder, a dictionary, and software, to clarify meanings and usage
- 4.13C use multiple sources, including electronic texts, experts, and print resources, to locate information relevant to research questions
- 4.19F use available technology to support aspects of creating, revising, editing, and publishing texts
- 4.21C take notes from relevant and authoritative sources such as guest speakers, periodicals, and on-line searches
- 4.21E present information in various forms using available technology
- 4.22B correspond with peers or others via e-mail or conventional mail
- 4.23B interpret important events and ideas gathered from maps, charts, graphics, video segments, or technology presentations
- 4.24B compare and contrast print, visual, and electronic media such as film with written story
- 4.25B produce communications using technology or appropriate media such as developing a class newspaper, multimedia reports, or video reports

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

- 4.14D use tools such as real objects, manipulatives, and technology to solve problems. (incorrectly noted on poster as 4.15D)
- 4.15A explain and record observations using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support scientific investigations.

- 4.2A plan and implement descriptive investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
- 4.4A collect and analyze information using tools including calculators, safety goggles, microscopes, cameras, sound recorders, computers, hand lenses, rulers, thermometers, meter sticks, timing devices, balances, and compasses

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

- 4.22A differentiate between, locate, and use primary and secondary sources such as computer software; interviews; biographies; oral, print, and visual material; and artifacts to acquire information about the United States and Texas

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Language Arts

- 5.9C use multiple reference aids, including a thesaurus, a synonym finder, a dictionary, and software, to clarify meanings and usage
- 5.13C use multiple sources, including electronic texts, experts, and print resources, to locate information relevant to research questions
- 5.19F use available technology to support aspects of creating, revising, editing, and publishing texts
- 5.21C take notes from relevant and authoritative sources such as guest speakers, periodicals, or on-line searches
- 5.21E present information in various forms using available technology
- 5.22B correspond with peers or others via e-mail or conventional mail
- 5.23B interpret important events and ideas gleaned from maps, charts, graphics, video segments or technology presentations
- 5.24B compare and contrast print, visual, and electronic media such as film with written story
- 5.25B produce communications using technology or appropriate media such as developing a class newspaper, multimedia reports, or video reports

Mathematics

Introduction: ... students use (mathematical) processes together with technology ... to develop conceptual understanding and solve problems as they do mathematics.

- 5.14D use tools such as real objects, manipulatives, and technology to solve problems (incorrectly noted on poster as 5.15D)
- 5.15A explain and record observations using objects, words, pictures, numbers, and technology

Science

Introduction: Students also use computers and information technology tools to support scientific investigations.

- 5.2A plan and implement descriptive and simple experimental investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology
- 5.2E construct simple graphs, tables, maps and charts using tools including computers to organize, examine, and evaluate information
- 5.4A collect and analyze information using tools including calculators, microscopes, cameras, sound recorders, computers, hand lenses, rulers, thermometers, compasses, balances, hot plates, meter sticks, timing devices, magnets, collecting nets, and safety goggles

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

- 5.25A differentiate between, locate, and use primary and secondary sources such as computer software; interviews; biographies; oral, print, and visual material; and artifacts to acquire information about the United States and Texas

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Language Arts

- 6.8B select varied sources such as plays, anthologies, novels, textbooks, poetry, newspapers, manuals, and electronic texts when reading for information or pleasure
- 6.9C use multiple reference aids, including a thesaurus, a synonym finder, a dictionary, and software, to clarify meanings and usage
- 6.13C use multiple sources, including electronic texts, experts, and print resources, to locate information
- 6.18F use available technology to support aspects of creating, revising, editing, and publishing texts
- 6.20C take notes from relevant and authoritative sources such as guest speakers, periodicals, and on-line searches
- 6.20E present information in various forms using available technology
- 6.21B correspond with peers or others via e-mail or conventional mail
- 6.22B interpret important events and ideas gathered from maps, charts, graphics, video segments, or technology presentations
- 6.23B compare and contrast print, visual, and electronic media such as film with written story
- 6.23C evaluate the purposes and effects of varying media such as film, print, and technology presentations
- 6.24B produce communications using technology or appropriate media such as developing a class newspaper, multimedia reports, or video reports

Mathematics

Introduction: Students use these processes together with technology to develop conceptual understanding and solve problems as they do mathematics.

- 6.11D Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems

Science

Introduction : Students also use computers and information technology tools to support scientific investigations.

- 6.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology
- 6.2E construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data
- 6.4A collect, analyze, and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers, and computer probes

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology

- 6.3A create thematic maps, graphs, charts, models, and databases depicting various aspects of world regions and countries such as population, disease, and economic activities
- 6.3C compare selected world regions and countries using data from maps, graphs, charts, databases, and models
- 6.21A differentiate between, locate, and use primary and secondary sources such as computer software, databases, media and news services, biographies, interviews, and artifacts to acquire information about Texas
- 6.21C organize and interpret information from outlines, reports, databases, and visuals including graphs, charts, timelines, and maps

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Technology Applications Texas Essential Knowledge and Skills (TEKS) *Curriculum Connections* *Planning Tool* Quick Reference Sheet



Language Arts

- 7.8B select varied sources such as plays, anthologies, novels, textbooks, poetry, newspapers, manuals, and electronic texts when reading for information or pleasure
- 7.9C use multiple reference aids, including a thesaurus, a synonym finder, a dictionary, and software, to clarify meanings and usage
- 7.13C use multiple sources, including electronic texts, experts, and print resources, to locate information
- 7.18F use available technology to support aspects of creating, revising, editing, and publishing texts
- 7.20C take notes from relevant and authoritative sources such as guest speakers, periodicals, and on-line searches
- 7.20E present information in various forms using available technology
- 7.21B correspond with peers or others via e-mail or conventional mail
- 7.22B interpret important events and ideas gathered from maps, charts, graphics, video segments, or technology presentations
- 7.23B compare and contrast print, visual, and electronic media such as film with written story
- 7.23C evaluate the purposes and effects of varying media such as film, print, and technology presentations
- 7.24B produce communications using technology or appropriate media such as developing a class newspaper, multimedia reports, or video reports

Mathematics

Introduction: Students use these processes together with technology to develop conceptual understanding and solve problems as they do mathematics.

- 7.13D Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems

Science

Introduction: Students also use computers and information technology tools to support scientific investigations.

- 7.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology
- 7.2E construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data
- 7.4A collect, analyze, and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers, and computer probes

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

- 7.8A create thematic maps, graphs, charts, models, and databases representing various aspects of Texas during the 19th and 20th centuries
- 7.21A differentiate between, locate, and use primary and secondary sources such as computer software, databases, media and news services, biographies, interviews, and artifacts to acquire information about Texas
- 7.21C organize and interpret information from outlines, reports, databases, and visuals including graphs, charts, timelines, and maps
- 7.22C transfer information from one medium to another, including written to visual and statistical to written or visual, using computer software as appropriate

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Technology Applications Texas Essential Knowledge and Skills (TEKS) *Curriculum Connections* *Planning Tool* Quick Reference Sheet



Language Arts

- 8.8B select varied sources such as plays, anthologies, novels, textbooks, poetry, newspapers, manuals, and electronic texts when reading for information or pleasure
- 8.9C use multiple reference aids, including a thesaurus, a synonym finder, a dictionary, and software, to clarify meanings and usage
- 8.13C use multiple sources, including electronic texts, experts, and print resources, to locate information
- 8.18F use available technology to support aspects of creating, revising, editing, and publishing texts
- 8.20C take notes from relevant and authoritative sources such as guest speakers, periodicals, and on-line searches
- 8.20E present information in various forms using available technology
- 8.21B correspond with peers or others via e-mail or conventional mail
- 8.22B interpret important events and ideas gathered from maps, charts, graphics, video segments, or technology presentations
- 8.23B compare and contrast print, visual, and electronic media such as film with written story
- 8.23C evaluate the purposes and effects of varying media such as film, print, and technology presentations
- 8.24B produce communications using technology or appropriate media such as developing a class newspaper, multimedia reports, or video reports

Mathematics

Introduction: Students use mathematical processes together with technology to develop conceptual understanding and solve problems as they do mathematics.

- 8.12C construct circle graphs, bar graphs, and histograms, with and without technology
- 8.14D Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems

Science

Introduction: Students also use computers and information technology tools to support scientific investigations.

- 8.2A plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology
- 8.2E construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data
- 8.4A collect, analyze, and record information using tools including beakers, petri dishes, meter sticks, graduated cylinders, weather instruments, timing devices, hot plates, test tubes, safety goggles, spring scales, magnets, balances, microscopes, telescopes, thermometers, calculators, field equipment, compasses, computers, and computer probes

Social Studies

Strand: Social studies skills. The student applies critical-thinking skills to organize and use information acquired from a variety of sources including electronic technology.

- 8.10A create thematic maps, graphs, charts, models, and databases representing various aspects of the United States
- 8.30A differentiate between, locate, and use primary and secondary sources such as computer software, databases, media and news services, biographies, interviews, and artifacts to acquire information about Texas
- 8.30B organize and interpret information from outlines, reports, databases, and visuals including graphs, charts, timelines, and maps
- 8.31C transfer information from one medium to another, including written to visual and statistical to written or visual, using computer software as appropriate