

Subject	Chapter 126. Technology Applications			
Course Title	§126.7. Technology Applications, Grades 3-5, Beginning with School Year 2012-2013			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
<b>(a) Introduction.</b>				
<p>(1) The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts.</p> <p>(2) Through the study of the six strands in technology applications, students use creative thinking and innovative processes to construct knowledge and develop products. Students communicate and collaborate both locally and globally to reinforce and promote learning. Research and information fluency includes the acquisition and evaluation of digital content. Students develop critical-thinking, problem-solving, and decision-making skills by collecting, analyzing, and reporting digital information. Students practice digital citizenship by behaving responsibly while using technology tools and resources. Through the study of technology operations and concepts, students learn technology related terms, concepts, and data input strategies.</p> <p>(3) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.</p>				
<b>(b) Knowledge and Skills.</b>				
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products. The student is expected to:	(A) create original products using a variety of resources			
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products. The student is expected to:	(B) analyze trends and forecast possibilities developing steps for the creation of an innovative process or product	(i) analyze trends developing steps for the creation of an innovative process or product		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products. The student is expected to:	(B) analyze trends and forecast possibilities developing steps for the creation of an innovative process or product	(ii) forecast possibilities developing steps for the creation of an innovative process or product		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products. The student is expected to:	(C) use virtual environments to explore systems and issues	(i) use virtual environments to explore systems		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products. The student is expected to:	(C) use virtual environments to explore systems and issues	(ii) use virtual environments to explore issues		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(i) draft products in different media individually		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(ii) edit products in different media individually		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(iii) publish products in different media individually		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(iv) draft products in different media collaboratively		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(v) edit products in different media collaboratively		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(A) draft, edit, and publish products in different media individually and collaboratively	(vi) publish products in different media collaboratively		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(i) use font attributes to ensure that products are appropriate for multiple communication media including monitor display		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(ii) use font attributes to ensure that products are appropriate for multiple communication media including web		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(iii) use font attributes to ensure that products are appropriate for multiple communication media including print		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(iv) use color to ensure that products are appropriate for multiple communication media including monitor display		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(v) use color to ensure that products are appropriate for multiple communication media including web		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(vi) use color to ensure that products are appropriate for multiple communication media including print		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(vii) use white space to ensure that products are appropriate for communication media including monitor display		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(viii) use white space to ensure that products are appropriate for communication media including web		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(ix) use white space to ensure that products are appropriate for communication media including print		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(x) use graphics to ensure that products are appropriate for multiple communication media including monitor display		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(xi) use graphics to ensure that products are appropriate for multiple communication media including web		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(B) use font attributes, color, white space, and graphics to ensure that products are appropriate for multiple communication media including monitor display, web, and print	(xii) use graphics to ensure that products are appropriate for multiple communication media including print		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(C) collaborate effectively through personal learning communities and social environments	(i) collaborate effectively through personal learning communities		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(C) collaborate effectively through personal learning communities and social environments	(ii) collaborate effectively through social environments		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(D) select and use appropriate collaboration tools	(i) select appropriate collaboration tools		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(D) select and use appropriate collaboration tools	(ii) use appropriate collaboration tools		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(E) evaluate the product for relevance to the assignment or task			
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(F) perform basic software application functions including opening applications and creating, modifying, printing and saving files	(i) perform basic software application functions including opening applications		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(F) perform basic software application functions including opening applications and creating, modifying, printing and saving files	(ii) perform basic software application functions including creating files		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(F) perform basic software application functions including opening applications and creating, modifying, printing and saving files	(iii) perform basic software application functions including modifying files		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(F) perform basic software application functions including opening applications and creating, modifying, printing and saving files	(iv) perform basic software application functions including printing files		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to:	(F) perform basic software application functions including opening applications and creating, modifying, printing and saving files	(v) perform basic software application functions including saving files		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(A) use various search strategies such as keyword(s): the Boolean identifiers <i>and</i> , <i>or</i> , and <i>not</i> and other strategies appropriate to specific search engines	(i) use various search strategies to search specific search engines		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(i) collect information from a variety of formats including text		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(ii) collect information from a variety of formats including audio		

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(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(iii) collect information from a variety of formats including video		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(iv) collect information from a variety of formats including graphics		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(v) organize information from a variety of formats including text		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(vi) organize information from a variety of formats including audio		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(vii) organize information from a variety of formats including video		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) collect and organize information from a variety of formats including text, audio, video, and graphics	(viii) organize information from a variety of formats including graphics		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(C) validate and evaluate the relevance and appropriateness of information	(i) validate the relevance of information		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(C) validate and evaluate the relevance and appropriateness of information	(ii) validate the appropriateness of information		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(C) validate and evaluate the relevance and appropriateness of information	(iii) evaluate the relevance of information		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(C) validate and evaluate the relevance and appropriateness of information	(iv) evaluate the appropriateness of information		
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(D) acquire information appropriate to specific tasks			

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(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(A) identify information regarding a problem and explain the steps toward the solution	(i) identify information regarding a problem		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(A) identify information regarding a problem and explain the steps toward the solution	(ii) explain the steps toward the solution		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(B) collect, analyze, and represent data to solve problems using tools such as word processing, databases, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(i) collect data to solve problems using tools		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(B) collect, analyze, and represent data to solve problems using tools such as word processing, databases, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(ii) analyze data to solve problems using tools		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(B) collect, analyze, and represent data to solve problems using tools such as word processing, databases, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(iii) represent data to solve problems using tools		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(C) evaluate student-created products through self and peer review for relevance to the assignment or task	(i) evaluate student-created products through self review for relevance to the assignment or task		



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(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(C) evaluate student-created products through self and peer review for relevance to the assignment or task	(ii) evaluate student-created products through peer review for relevance to the assignment or task		
(4) Critical thinking, problem solving, and decision making. The student researches and evaluates projects using digital tools and resources. The student is expected to:	(D) evaluate technology tools applicable for solving problems			
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(A) adhere to acceptable use policies reflecting positive social behavior in the digital environment			
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(B) respect the intellectual property of others			
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) abide by copyright law and the Fair Use Guidelines for Educational Multimedia	(i) abide by copyright law		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) abide by copyright law and the Fair Use Guidelines for Educational Multimedia	(ii) abide by the Fair Use Guidelines for Educational Multimedia		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(D) protect and honor individual privacy of oneself and others	(i) protect individual privacy of oneself		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(D) protect and honor individual privacy of oneself and others	(ii) protect individual privacy of others		

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(D) protect and honor individual privacy of oneself and others	(iii) honor individual privacy of oneself		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(D) protect and honor individual privacy of oneself and others	(iv) honor individual privacy of others		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(E) follow the rules of digital etiquette			
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(i) practice safe use of information		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(ii) practice safe use of technology		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(iii) practice legal use of information		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(iv) practice legal use of technology		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(v) practice responsible use of information		

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(F) practice safe, legal, and responsible use of information and technology	(vi) practice responsible use of technology		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(G) comply with fair use guidelines and digital safety rules	(i) comply with fair use guidelines		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(G) comply with fair use guidelines and digital safety rules	(ii) comply with digital safety rules		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) demonstrate an understanding of technology concepts including terminology for the use of operating systems, network systems, virtual systems, and learning systems appropriate for Grades 3-5 learning	(i) demonstrate an understanding of technology concepts including terminology for the use of operating systems appropriate for Grades 3-5 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) demonstrate an understanding of technology concepts including terminology for the use of operating systems, network systems, virtual systems, and learning systems appropriate for Grades 3-5 learning	(ii) demonstrate an understanding of technology concepts including terminology for the use of network systems appropriate for Grades 3-5 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) demonstrate an understanding of technology concepts including terminology for the use of operating systems, network systems, virtual systems, and learning systems appropriate for Grades 3-5 learning	(iii) demonstrate an understanding of technology concepts including terminology for virtual systems appropriate for Grades 3-5 learning		

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(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) demonstrate an understanding of technology concepts including terminology for the use of operating systems, network systems, virtual systems, and learning systems appropriate for Grades 3-5 learning	(iv) demonstrate an understanding of technology concepts including terminology for learning systems appropriate for Grades 3-5 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) manipulate files using appropriate naming conventions; file management, including folder structures and tagging; and file conversion	(i) manipulate files using appropriate naming conventions		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) manipulate files using appropriate naming conventions; file management, including folder structures and tagging; and file conversion	(ii) manipulate files using file management, including folder structures		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) manipulate files using appropriate naming conventions; file management, including folder structures and tagging; and file conversion	(iii) manipulate files using file management, including tagging		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) manipulate files using appropriate naming conventions; file management, including folder structures and tagging; and file conversion	(iv) manipulate files using file conversion		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) navigate systems and applications accessing peripherals both locally and remotely	(i) navigate systems accessing peripherals locally		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) navigate systems and applications accessing peripherals both locally and remotely	(ii) navigate systems accessing peripherals remotely		

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(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) navigate systems and applications accessing peripherals both locally and remotely	(iii) navigate applications accessing peripherals locally		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) navigate systems and applications accessing peripherals both locally and remotely	(iv) navigate applications accessing peripherals remotely		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(D) troubleshoot minor technical problems with hardware and software using available resources such as online help and knowledge bases	(i) troubleshoot minor technical problems with hardware using available resources		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(D) troubleshoot minor technical problems with hardware and software using available resources such as online help and knowledge bases	(ii) troubleshoot minor technical problems with software using available resources		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(E) use proper touch keyboarding techniques and ergonomic strategies such as correct hand and body positions and smooth and rhythmic keystrokes	(i) use proper touch keyboarding techniques		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(E) use proper touch keyboarding techniques and ergonomic strategies such as correct hand and body positions and smooth and rhythmic keystrokes	(ii) use proper ergonomic strategies		