Subject	Chapter 126. Technology Applications				
Course Title	§126.7. Technology Applicati	126.7. Technology Applications, Grades 3-5, Beginning with School Year 2012-2013			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement	
(a) Introduction.					

- (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.
- (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.
- (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.

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(b) Knowledge and Skills.			
(1) Creativity and innovation. The	(A) create original products		
student uses creative thinking and	using a variety of resources		
innovative processes to construct			
knowledge and develop digital			
products. The student is expected to:			
(1) Creativity and innerestion. The	(D) analyza tranda and	(i) analyza tranda dayalaning	
(1) Creativity and innovation. The	(B) analyze trends and	(i) analyze trends developing	
student uses creative thinking and	forecast possibilities	steps for the creation of an	
innovative processes to construct	developing steps for the creation of an innovative	innovative process or product	
knowledge and develop digital			
products. The student is expected to:	process or product		
(1) Creativity and innovation. The	(B) analyze trends and	(ii) forecast possibilities	
student uses creative thinking and	forecast possibilities	developing steps for the	
innovative processes to construct	developing steps for the	creation of an innovative	
knowledge and develop digital	creation of an innovative	process or product	
products. The student is expected to:	process or product		
(1) Creativity and innovation. The	(C) use virtual environments to		
student uses creative thinking and	explore systems and issues	explore systems	
innovative processes to construct			
knowledge and develop digital			
products. The student is expected to:			
(1) Creativity and innovation. The		(ii) use virtual environments to	
student uses creative thinking and	explore systems and issues	explore issues	
innovative processes to construct			
knowledge and develop digital			
products. The student is expected to:			

Page 1 of 13 Updated: 9/20/2012

Subject	Chapter 126. Technology Ap	plications		
Course Title		ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(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		
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The student collaborates and white space, and graphics to communicates both locally and globally using digital tools and resources to reinforce and promote learning. The student is expected to: white space, and graphics to ensure that products are appropriate for multiple communication media including print	(2) Communication and callshaution		(vi) was salar to answer that		
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	licarring. The student is expected to.				

Page 3 of 13 Updated: 9/20/2012

Subject	Chapter 126. Technology App	plications		
Course Title	§126.7. Technology Applicati	ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(2) Communication and collaboration.	(B) use font attributes, color,	(vii) use white space to ensure		
The student collaborates and	white space, and graphics to	that products are appropriate		
communicates both locally and	ensure that products are	for communication media		
globally using digital tools and	appropriate for multiple	including monitor display		
resources to reinforce and promote	communication media			
learning. The student is expected to:	including monitor display, web,			
	and print			
(2) Communication and collaboration.	(B) use font attributes, color,	(viii) use white space to		
The student collaborates and	white space, and graphics to	ensure that products are		
communicates both locally and	ensure that products are	appropriate for communication		
globally using digital tools and	appropriate for multiple	media including web		
resources to reinforce and promote	communication media			
learning. The student is expected to:	including monitor display, web,			
	and print			
(2) Communication and collaboration.	(B) use font attributes, color,	(ix) use white space to ensure		
The student collaborates and	white space, and graphics to	that products are appropriate		
communicates both locally and	ensure that products are	for communication media		
globally using digital tools and	appropriate for multiple	including print		
resources to reinforce and promote	communication media			
learning. The student is expected to:	including monitor display, web,			
(0) 0	and print			
(2) Communication and collaboration.	(B) use font attributes, color,	(x) use graphics to ensure that		
The student collaborates and	white space, and graphics to	products are appropriate for		
communicates both locally and	ensure that products are	multiple communication media		
globally using digital tools and	appropriate for multiple	including monitor display		
resources to reinforce and promote	communication media			
learning. The student is expected to:	including monitor display, web,			
(2) Communication and collaboration.	and print (B) use font attributes, color,	(xi) use graphics to ensure		
The student collaborates and	white space, and graphics to	that products are appropriate		
communicates both locally and	ensure that products are	for multiple communication		
globally using digital tools and	appropriate for multiple	media including web		
resources to reinforce and promote	communication media	media incidding web		
learning. The student is expected to:	including monitor display, web,			
	and print			
(2) Communication and collaboration.	(B) use font attributes, color,	(xii) use graphics to ensure		
The student collaborates and	white space, and graphics to	that products are appropriate		
communicates both locally and	ensure that products are	for multiple communication		
globally using digital tools and	appropriate for multiple	media including print		
resources to reinforce and promote	communication media			
learning. The student is expected to:	including monitor display, web,			
	and print			

Subject	Chapter 126. Technology App	plications		
Course Title	§126.7. Technology Applicati	ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(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		

Page 5 of 13 Updated: 9/20/2012

Subject	Chapter 126. Technology Applications			
Course Title		ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(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 and, or, and not 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		

Subject	Chapter 126. Technology Applications			
Course Title	§126.7. Technology Applicati	ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency.	(B) collect and organize	(iii) collect information from a		
The student acquires and evaluates	information from a variety of	variety of formats including		
digital content. The student is	formats including text, audio,	video		
expected to:	video, and graphics			
(3) Research and information fluency.	(B) collect and organize	(iv) collect information from a		
The student acquires and evaluates	information from a variety of	variety of formats including		
digital content. The student is	formats including text, audio,	graphics		
expected to:	video, and graphics			
(3) Research and information fluency.	(B) collect and organize	(v) organize information from a		
The student acquires and evaluates	information from a variety of	variety of formats including		
digital content. The student is	formats including text, audio,	text		
expected to:	video, and graphics			
(3) Research and information fluency.	(B) collect and organize	(vi) organize information from		
The student acquires and evaluates	information from a variety of	a variety of formats including		
digital content. The student is	formats including text, audio,	audio		
expected to:	video, and graphics			
(3) Research and information fluency.	(B) collect and organize	(vii) organize information from		
The student acquires and evaluates	information from a variety of	a variety of formats including		
digital content. The student is	formats including text, audio,	video		
expected to:	video, and graphics			
(3) Research and information fluency.	(B) collect and organize	(viii) organize information from		
The student acquires and evaluates	information from a variety of	a variety of formats including		
digital content. The student is	formats including text, audio,	graphics		
expected to:	video, and graphics			
(3) Research and information fluency.	(C) validate and evaluate the	(i) validate the relevance of		
The student acquires and evaluates	relevance and	information		
digital content. The student is	appropriateness of information			
expected to:				
(3) Research and information fluency.	(C) validate and evaluate the	(ii) validate the		
The student acquires and evaluates	relevance and	appropriateness of information		
digital content. The student is	appropriateness of information			
expected to:				
(3) Research and information fluency.	(C) validate and evaluate the	(iii) evaluate the relevance of		
The student acquires and evaluates	relevance and	information		
digital content. The student is	appropriateness of information			
expected to:				
(3) Research and information fluency.	(C) validate and evaluate the	(iv) evaluate the		
The student acquires and evaluates	relevance and	appropriateness of information		
digital content. The student is	appropriateness of information			
expected to:				
(3) Research and information fluency.	(D) acquire information			
The student acquires and evaluates	appropriate to specific tasks			
digital content. The student is				
expected to:				

Page 7 of 13 Updated: 9/20/2012

Subject	Chapter 126. Technology Applications			
Course Title	§126.7. Technology Applicati			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(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		

Subject	Chapter 126. Technology Applications			
Course Title		ons, Grades 3-5, Beginning w	ith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving,		(ii) evaluate student-created		
and decision making. The student	products through self and peer			
researches and evaluates projects	review for relevance to the	for relevance to the		
using digital tools and resources. The	assignment or task	assignment or task		
student is expected to:				
(4) Critical thinking, problem solving,	(D) evaluate technology tools			
and decision making. The student	applicable for solving			
researches and evaluates projects	problems			
using digital tools and resources. The				
student is expected to:				
(5) Digital citizenship. The student	(A) adhere to acceptable use			
practices safe, responsible, legal, and	policies reflecting positive			
ethical behavior while using digital	social behavior in the digital			
tools and resources. The student is	environment			
expected to:				
(5) Digital citizenship. The student	(B) respect the intellectual			
practices safe, responsible, legal, and	property of others			
ethical behavior while using digital				
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(C) abide by copyright law and	(i) abide by copyright law		
practices safe, responsible, legal, and	the Fair Use Guidelines for	, , , , ,		
ethical behavior while using digital	Educational Multimedia			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(C) abide by copyright law and	(ii) abide by the Fair Use		
practices safe, responsible, legal, and	the Fair Use Guidelines for	Guidelines for Educational		
ethical behavior while using digital	Educational Multimedia	Multimedia		
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student		(i) protect individual privacy of		
practices safe, responsible, legal, and	individual privacy of oneself	oneself		
ethical behavior while using digital	and others			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(D) protect and honor	(ii) protect individual privacy of		
practices safe, responsible, legal, and	individual privacy of oneself	others		
ethical behavior while using digital	and others			
tools and resources. The student is				
expected to:				

Page 9 of 13 Updated: 9/20/2012

Subject	Chapter 126. Technology Applications			
Course Title	§126.7. Technology Applicati	ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The student	(D) protect and honor	(iii) honor individual privacy of		
practices safe, responsible, legal, and	individual privacy of oneself	oneself		
ethical behavior while using digital	and others			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(D) protect and honor	(iv) honor individual privacy of		
practices safe, responsible, legal, and	individual privacy of oneself	others		
ethical behavior while using digital	and others			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(E) follow the rules of digital			
practices safe, responsible, legal, and	etiquette			
ethical behavior while using digital	·			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(F) practice safe, legal, and	(i) practice safe use of		
practices safe, responsible, legal, and		information		
ethical behavior while using digital	and technology			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(F) practice safe, legal, and	(ii) practice safe use of		
practices safe, responsible, legal, and	responsible use of information	technology		
ethical behavior while using digital	and technology			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(F) practice safe, legal, and	(iii) practice legal use of		
practices safe, responsible, legal, and	responsible use of information	information		
ethical behavior while using digital	and technology			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(F) practice safe, legal, and	(iv) practice legal use of		
practices safe, responsible, legal, and	responsible use of information	technology		
ethical behavior while using digital	and technology			
tools and resources. The student is				
expected to:				
(5) Digital citizenship. The student	(F) practice safe, legal, and	(v) practice responsible use of		
practices safe, responsible, legal, and	responsible use of information			
ethical behavior while using digital	and technology			
tools and resources. The student is				
expected to:				

Subject	Chapter 126. Technology Applications			
Course Title		ons, Grades 3-5, Beginning w	rith School Year 2012-2013	
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(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:	for the use of operating	(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:	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:	for the use of operating	(iii) demonstrate an understanding of technology concepts including terminology for virtual systems appropriate for Grades 3-5 learning		

Page 11 of 13 Updated: 9/20/2012

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

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	
(6) Technology operations and	(C) navigate systems and	(iii) navigate applications			
concepts. The student demonstrates	applications accessing	accessing peripherals locally			
knowledge and appropriate use of	peripherals both locally and				
technology systems, concepts, and	remotely				
operations. The student is expected to:					
(6) Technology operations and	(C) navigate systems and	(iv) navigate applications			
concepts. The student demonstrates	applications accessing	accessing peripherals			
knowledge and appropriate use of	peripherals both locally and	remotely			
technology systems, concepts, and	remotely				
operations. The student is expected to:	,				
		(0)			
(6) Technology operations and	(D) troubleshoot minor	(i) troubleshoot minor			
concepts. The student demonstrates	technical problems with	technical problems with			
knowledge and appropriate use of	hardware and software using	hardware using available			
technology systems, concepts, and	available resources such as	resources			
operations. The student is expected to:	,				
(a) T	bases				
(6) Technology operations and	(D) troubleshoot minor	(ii) troubleshoot minor			
concepts. The student demonstrates	technical problems with	technical problems with			
knowledge and appropriate use of	hardware and software using	software using available			
technology systems, concepts, and operations. The student is expected to:	available resources such as online help and knowledge	resources			
operations. The student is expected to.	bases				
(6) Technology operations and	(E) use proper touch	(i) use proper touch			
concepts. The student demonstrates	keyboarding techniques and	keyboarding techniques			
knowledge and appropriate use of	ergonomic strategies such as				
technology systems, concepts, and	correct hand and body				
operations. The student is expected to:	positions and smooth and				
	rhythmic keystrokes				
(6) Technology operations and	(E) use proper touch	(ii) use proper ergonomic			
concepts. The student demonstrates	keyboarding techniques and	strategies			
knowledge and appropriate use of	ergonomic strategies such as				
technology systems, concepts, and	correct hand and body				
operations. The student is expected to:	[F				
	rhythmic keystrokes				

Page 13 of 13 Updated: 9/20/2012