Breakout Instrument

Subject	Chapter 126 Technology	Chapter 126 Technology Applications			
Course Title	§126 Technology Applica	126 Technology Applications, Kindergarten-Grade 2			
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.

			1	
(b) Knowledge and Skills.				
(1) Creativity and innovation. The student	(A) apply prior knowledge to	(i) apply prior knowledge to		
uses creative thinking and innovative	develop new ideas, products,	develop new ideas		
processes to construct knowledge and	and processes			
develop digital products. The student is				
expected to:				
(1) Creativity and innovation. The student	(A) apply prior knowledge to	(ii) apply prior knowledge to		
uses creative thinking and innovative	develop new ideas, products,	develop new products		
processes to construct knowledge and	and processes			
develop digital products. The student is				
expected to:				
(1) Creativity and innovation. The student	(A) apply prior knowledge to	(iii) apply prior knowledge to		
uses creative thinking and innovative	develop new ideas, products,	develop new processes		
processes to construct knowledge and	and processes			
develop digital products. The student is				
expected to:				
(1) Creativity and innovation. The student	(B) create original products			
uses creative thinking and innovative	using a variety of resources			
processes to construct knowledge and				
develop digital products. The student is				
expected to:				
(1) Creativity and innovation. The student	(C) explore virtual	(i) explore virtual		
uses creative thinking and innovative	environments, simulations,	environments to enhance		
processes to construct knowledge and	models, and programming	learning		
develop digital products. The student is	languages to enhance learning			
expected to:				

Subject	Chapter 126 Technology App	olications		
Course Title	§126 Technology Application			
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	(A) use communication tools	(ii) use communication tools that allow for anytime, anywhere access to interact, collaborate, or publish with peers globally		
(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) participate in digital environments to develop cultural understanding by interacting with learners of multiple cultures			
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(i) format digital information including font attributes for a defined audience		
locally and globally using digital tools and	(C) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(ii) format digital information including color for a defined audience		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(iii) format digital information including white space for a defined audience		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(iv) format digital information including graphics for a defined audience		

Subject	Chapter 126 Technology App	lications		
Course Title	§126 Technology Application			
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) format digital information	 (v) format digital information including animation for a defined audience 		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(vi) format digital information including font attributes for a defined communication medium		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(vii) format digital information including color for a defined communication medium		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(viii) format digital information including white space for a defined communication medium		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	(ix) format digital information including graphics for a defined communication medium		
(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) format digital information including font attributes, color, white space, graphics, and animation, for a defined audience and communication medium	 (x) format digital information including animation for a defined communication medium 		

Subject	Chapter 126 Technology Ap	plications		
Course Title	§126 Technology Application			
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	(D) select, store, and deliver	 (i) select products using a variety of media 		
(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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(ii) store products using a variety of media		
	(D) select, store, and deliver products using a variety of media, formats, devices, and virtual environments	(iii) deliver products using a variety of media		
(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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(iv) select products using a variety of formats		
(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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(v) store products using a variety of formats		
student collaborates and communicates both locally and globally using digital tools and	(D) select, store, and deliver products using a variety of media, formats, devices, and virtual environments	(vi) deliver products using a variety of formats		

Subject	Chapter 126 Technology App	olications		
Course Title	§126 Technology Application			
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:	(D) select, store, and deliver	(vii) select products using a variety of devices		
(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:	media, formats, devices, and	(viii) store products using a variety of devices		
(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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(ix) deliver products using a variety of devices		
(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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(x) select products using a variety of virtual 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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(xi) store products using a variety of virtual 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, store, and deliver products using a variety of media, formats, devices, and virtual environments	(xii) deliver products using a variety of virtual environments		

Subject	Chapter 126 Technology App	olications			
Course Title	§126 Technology Applications, Kindergarten-Grade 2				
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement	
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(A) use search strategies to access information to guide inquiry				
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(B) use research skills to build a knowledge base regarding a topic, task, or assignment				
(3) Research and information fluency. The student acquires and evaluates digital content. The student is expected to:	(C) evaluate the usefulness of acquired digital content				
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(A) identify what is known and unknown and what needs to be known regarding a problem and explain the steps to solve the problem	regarding a problem			
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(A) identify what is known and unknown and what needs to be known regarding a problem and explain the steps to solve the problem	(ii) identify what is unknown regarding a problem			
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(A) identify what is known and unknown and what needs to be known regarding a problem and explain the steps to solve the problem	(iii) identify what needs to be known regarding a problem			

Subject	Chapter 126 Technology App	lications		
Course Title	§126 Technology Application			
TEKS (Knowledge and Skills) (4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	Student Expectation (A) identify what is known and unknown and what needs to be known regarding a problem and explain the steps to solve the problem	Breakout (iv) explain the steps to solve the problem	Element	Subelement
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(B) evaluate the appropriateness of a digital tool to achieve the desired product			
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(C) evaluate products prior to final submission			
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(D) collect, analyze, and represent data using tools such as word processing, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(i) collect data using tools		
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(D) collect, analyze, and represent data using tools such as word processing, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(ii) analyze data using tools		

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Course Title	§126 Technology Application			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving and decision making. The student applies critical thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources. The student is expected to:	(D) collect, analyze, and represent data using tools such as word processing, spreadsheets, graphic organizers, charts, multimedia, simulations, models, and programming languages	(iii) represent data using tools		
(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 appropriate behavior in a 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) comply with acceptable digital safety rules, fair use guidelines, and copyright laws	(i) comply with acceptable digital safety rules		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(B) comply with acceptable digital safety rules, fair use guidelines, and copyright laws	(ii) comply with acceptable 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:	(B) comply with acceptable digital safety rules, fair use guidelines, and copyright laws	(iii) comply with acceptable copyright laws		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) practice the responsible use of digital information regarding intellectual property, including software, text, images, audio, and video	(i) practice the responsible use of digital information regarding intellectual property including software		

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Course Title	§126 Technology Application			
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:	(C) practice the responsible use of digital information regarding intellectual property, including software, text, images, audio, and video	(ii) practice the responsible use of digital information regarding intellectual property including text		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) practice the responsible use of digital information regarding intellectual property, including software, text, images, audio, and video	(iii) practice the responsible use of digital information regarding intellectual property including images		1
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) practice the responsible use of digital information regarding intellectual property, including software, text, images, audio, and video	(iv) practice the responsible use of digital information regarding intellectual property including audio		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using digital tools and resources. The student is expected to:	(C) practice the responsible use of digital information regarding intellectual property, including software, text, images, audio, and video	(v) practice the responsible use of digital information regarding intellectual property including video		1
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(i) use appropriate terminology regarding basic hardware		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(ii) use appropriate terminology regarding basic software applications		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(iii) use appropriate terminology regarding basic programs		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(iv) use appropriate terminology regarding basic networking		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(v) use appropriate terminology regarding basic virtual environments		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(A) use appropriate terminology regarding basic hardware, software applications, programs, networking, virtual environments, and emerging technologies	(vi) use appropriate terminology regarding basic emerging technologies		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(i) use appropriate digital tools for storage		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(ii) use appropriate digital tools for access		

Subject	Chapter 126 Technology App	olications		
Course Title	§126 Technology Applications, Kindergarten-Grade 2			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(iii) use appropriate digital tools for file management		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(iv) use appropriate digital tools for collaboration		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(v) use appropriate digital tools for designing solutions to problems		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(vi) use appropriate digital resources for storage		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(vii) use appropriate digital resources for access		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(viii) use appropriate digital resources for file management		

Subject	Chapter 126 Technology App	olications		
Course Title	§126 Technology Applications, Kindergarten-Grade 2			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(ix) use appropriate digital resources for collaboration		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(B) use appropriate digital tools and resources for storage, access, file management, collaboration, and designing solutions to problems	(x) use appropriate digital resources for designing solutions to problems		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) perform basic software application functions, including opening an application and creating, modifying, printing, and saving files	(i) perform basic software application functions including opening an application		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) perform basic software application functions including opening an application and creating, modifying, printing, and saving files	(ii) perform basic software application functions including creating files		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) perform basic software application functions including opening an application and creating, modifying, printing, and saving files	(iii) perform basic software application functions including modifying files		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) perform basic software application functions including opening an application and creating, modifying, printing, and saving files	(iv) perform basic software application functions including printing files		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(C) perform basic software	(v) perform basic software application functions including saving files		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(D) use a variety of input, output, and storage devices	(i) use a variety of input devices		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(D) use a variety of input, output, and storage devices	(ii) use a variety of output devices		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(D) use a variety of input, output, and storage devices	(iii) use a variety of storage devices		
(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 keyboarding techniques such as ergonomically correct hand and body positions appropriate for Kindergarten - Grade 2 learning	(i) use proper keyboarding techniques for Kindergarten- Grade 2 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(F) demonstrate keyboarding techniques for operating the alphabetic, numeric, punctuation, and symbol keys appropriate for Kindergarten - Grade 2 learning	(i) demonstrate keyboarding techniques for operating alphabetic keys appropriate for Kindergarten - Grade 2 learning	1	

Subject	Chapter 126 Technology App	olications		
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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(F) demonstrate keyboarding techniques for operating the alphabetic, numeric, punctuation, and symbol keys appropriate for Kindergarten - Grade 2 learning	(ii) demonstrate keyboarding techniques for operating numeric keys appropriate for Kindergarten - Grade 2 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(F) demonstrate keyboarding techniques for operating the alphabetic, numeric, punctuation, and symbol keys appropriate for Kindergarten - Grade 2 learning	(iii) demonstrate keyboarding techniques for operating punctuation keys appropriate for Kindergarten - Grade 2 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(F) demonstrate keyboarding techniques for operating the alphabetic, numeric, punctuation, and symbol keys appropriate for Kindergarten - Grade 2 learning	(iv) demonstrate keyboarding techniques for operating symbol keys appropriate for Kindergarten - Grade 2 learning		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(G) use the help feature online and in applications	(i) use the help feature online		
(6) Technology operations and concepts. The student demonstrates knowledge and appropriate use of technology systems, concepts, and operations. The student is expected to:	(G) use the help feature online and in applications	(ii) use the help feature in applications		