Subject	§126. Technology Applications				
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-	2013.	
	Student Expectation	Breakout	Element	Subelement	
	udents shall be awarded one-ha		mpletion of this course. The req	uired prerequisite for this	
course is Algebra I. This course	e is recommended for students in	n Grades 9-12.			
(b) Introduction.					
	curriculum has six strands base				
	rriculum has six strands based o				
	ernational Society for Technolog				
and information fluency; critical	thinking, problem solving, and o	decision making; digital citizensh	ip; and technology operations a	nd concepts.	
(2) Computer Science I is design	ned to foster students' creativity	and innovation by presenting o	pportunities to design, implemer	nt and present meaningful	
programs through a variety of n	nedia. Students will collaborate v	with one another, their instructor	and with various electronic com	nmunities to solve the	
problems presented throughout	the course. Data analysis will ir	nclude the identification of task re	equirements, planning search st	rategies and the use of	
computer science concepts to a	access, analyze, and evaluate in	formation needed to solve probl	ems. By using computer science	e knowledge and skills that	
supports the work of individuals	s and groups in solving problems	s, students will select the techno	logy appropriate for the task, sy	nthesize knowledge, create a	
	ts. Students will learn to become				
course. Students will gain an ur	nderstanding of the principles of	computer science through the s	tudy of technology operations, s	systems, and concepts.	
(0) 0(-1		and the discount has been deed and the	the second state of the second second	b II it dd	
	word "including" reference conte	ent that must be mastered, while	e those containing the phrase si	uch as are intended as	
possible illustrative examples.					
(c) Knowledge and Skills.					
(1) Creativity and innovation.	(A) participate with electronic	(i) participate with electronic			
The student develops products		communities as a learner			
and generates new	initiator, contributor, and				
understandings by extending	teacher/mentor				
existing knowledge. The					
student is expected to:					
(1) Creativity and innovation.	(A) participate with electronic	(ii) participate with electronic			
The student develops products		communities as a[n] initiator			
and generates new	initiator, contributor, and				
understandings by extending	teacher/mentor				
existing knowledge. The					
student is expected to:					
(1) Creativity and innovation.	(A) participate with electronic	(iii) participate with electronic			
The student develops products		communities as a contributor			
and generates new	initiator, contributor, and				
understandings by extending	teacher/mentor				
existing knowledge. The					
student is expected to:					

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Subject	§126. Technology Application	ns		
Course Title			inning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation.	(A) participate with electronic	(iv) participate with electronic		
The student develops products	communities as a learner,	communities as a		
and generates new	initiator, contributor, and	teacher/mentor		
understandings by extending	teacher/mentor			
existing knowledge. The				
student is expected to:				
(1) Creativity and innovation.	(B) extend the learning	(i) extend the learning		
The student develops products	environment beyond the	environment beyond the		
and generates new	school walls with digital	school walls with digital		
understandings by extending	products created to increase	products created to increase		
existing knowledge. The	teaching and learning in the	teaching in the other subject		
student is expected to:	other subject areas	areas		
(1) Creativity and innovation.	(B) extend the learning	(ii) extend the learning		
The student develops products	environment beyond the	environment beyond the		
and generates new	school walls with digital	school walls with digital		
understandings by extending	products created to increase	products created to increase		
existing knowledge. The	teaching and learning in the	learning in the other subject		
student is expected to:	other subject areas	areas		
(1) Creativity and innovation.	(C) participate in relevant,	(i) participate in relevant		
	meaningful activities in the	activities in the larger		
and generates new	larger community and society	community to create electronic		
understandings by extending	to create electronic projects	projects		
existing knowledge. The	to ordate diconorme projecto	p. 0,00.0		
student is expected to:				
(1) Creativity and innovation.	(C) participate in relevant,	(ii) participate in relevant		
	meaningful activities in the	activities in society to create		
and generates new	larger community and society	electronic projects		
understandings by extending	to create electronic projects			
existing knowledge. The				
student is expected to:				
(1) Creativity and innovation.	(C) participate in relevant,	(iii) participate in meaningful		
	meaningful activities in the	activities in the larger		
and generates new	larger community and society	community to create electronic		
understandings by extending	to create electronic projects	projects		
existing knowledge. The				
student is expected to:				

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Subject	§126. Technology Application	ıs		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student develops products and generates new understandings by extending existing knowledge. The student is expected to:	(C) participate in relevant, meaningful activities in the larger community and society to create electronic projects	(iv) participate in meaningful activities in society to create electronic projects		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(A) create and properly display meaningful output	(i) create meaningful output		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(A) create and properly display meaningful output	(ii) properly display meaningful output		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(B) create interactive console display interfaces, with appropriate user prompts, to acquire data from a user			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(C) use Graphical User Interfaces (GUIs) to create interactive interfaces to acquire data from a user and display program results	(i) use Graphical User Interfaces (GUIs) to create interactive interfaces to acquire data from a user		

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Subject	§126. Technology Application	ns .		
Course Title	§126.33. Computer Science I		nning with School Year 2012-2	
TEKS (Knowledge and (2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	Student Expectation (C) use Graphical User Interfaces (GUIs) to create interactive interfaces to acquire data from a user and display program results	Breakout (ii) use Graphical User Interfaces (GUIs) to create interactive interfaces to display program results	Element	Subelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	programming style to enhance		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	programming style to enhance		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	programming style to enhance		

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Subject	§126. Technology Application	ns		
Course Title		(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and (2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	Breakout (iv) write programs with proper programming style to enhance the readability of the code by using spacing	Element	Subelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	(vii) write programs with proper programming style to enhance the functionality of the code by using meaningful descriptive identifiers		

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Subject	§126. Technology Application	ıs		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and (2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	Student Expectation (D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	Breakout (viii) write programs with proper programming style to	Element	Subelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	programming style to enhance		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper programming style to enhance the readability and functionality of the code by using meaningful descriptive identifiers, internal comments, white space, spacing, indentation, and a standardized program style	(xi) write programs with proper programming style to enhance the functionality of the code by using indentation		

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Subject	§126. Technology Application	าร		
Course Title			nning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(D) write programs with proper	(xii) write programs with proper programming style to enhance		oubelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(E) improve numeric display by optimizing data visualization			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(F) display simple vector graphics using lines, circles and rectangles	(i) display simple vector graphics using lines		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(F) display simple vector graphics using lines, circles and rectangles	(ii) display simple vector graphics using circles		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(F) display simple vector graphics using lines, circles and rectangles	(iii) display simple vector graphics using rectangles		

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Subject	§126. Technology Application	ns		
Course Title			inning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(2) Communication and	(G) display simple bit map			
collaboration. The student	images			
communicates and				
collaborates with peers to				
contribute to his or her own				
learning and the learning of				
others. The student is				
expected to:				
(2) Communication and	(H) seek and respond to	(i) seek advice from peers in		
collaboration. The student	advice from peers and	evaluating quality		
communicates and	professionals in evaluating	evaluating quality		
collaborates with peers to	quality and accuracy			
contribute to his or her own	quality and accuracy			
learning and the learning of				
others. The student is				
expected to:				
(2) Communication and	(H) seek and respond to	(ii) seek advice from peers in		
collaboration. The student	advice from peers and	evaluating accuracy		
communicates and	professionals in evaluating			
collaborates with peers to	quality and accuracy			
contribute to his or her own				
learning and the learning of				
others. The student is				
expected to: (2) Communication and	(H) seek and respond to	(iii) seek advice from		
collaboration. The student	advice from peers and	professionals in evaluating		
communicates and	professionals in evaluating	quality		
collaborates with peers to	quality and accuracy	quanty		
contribute to his or her own	quality and accuracy			
learning and the learning of				
others. The student is				
expected to:				
(2) Communication and	(H) seek and respond to	(iv) seek advice from		
collaboration. The student	advice from peers and	professionals in evaluating		
communicates and	professionals in evaluating	accuracy		
collaborates with peers to	quality and accuracy			
contribute to his or her own				
learning and the learning of				
others. The student is				
expected to:				

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Subject	§126. Technology Application	18		
Course Title			inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:  (2) Communication and collaboration. The student communicates and collaborates with peers to	(H) seek and respond to advice from peers and professionals in evaluating quality and accuracy  (H) seek and respond to advice from peers and professionals in evaluating quality and accuracy	(v) respond to advice from peers in evaluating quality  (vi) respond to advice from peers in evaluating accuracy	Liement	Subelefficit
contribute to his or her own learning and the learning of others. The student is expected to:  (2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(H) seek and respond to advice from peers and professionals in evaluating quality and accuracy	(vii) respond to advice from professionals in evaluating quality		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:	(H) seek and respond to advice from peers and professionals in evaluating quality and accuracy	(viii) respond to advice from professionals in evaluating accuracy		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(A) use a variety of resources, including foundation and enrichment curricula, to gather authentic data as a basis for individual and group programming projects	(i) use a variety of resources, including foundation curricula, to gather authentic data as a basis for individual programming projects		

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Subject	§126. Technology Application	ıs		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(A) use a variety of resources, including foundation and enrichment curricula, to gather authentic data as a basis for individual and group programming projects	(ii) use a variety of resources, including foundation curricula, to gather authentic data as a basis for group programming projects		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(A) use a variety of resources, including foundation and enrichment curricula, to gather authentic data as a basis for individual and group programming projects	(iii) use a variety of resources, including enrichment curricula, to gather authentic data as a basis for individual programming projects		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(A) use a variety of resources, including foundation and enrichment curricula, to gather authentic data as a basis for individual and group programming projects	(iv) use a variety of resources, including enrichment curricula, to gather authentic data as a basis for group programming projects		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(B) use various productivity tools to gather authentic data as a basis for individual and group programming projects	(i) use various productivity tools to gather authentic data as a basis for individual programming projects		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(B) use various productivity tools to gather authentic data as a basis for individual and group programming projects	(ii) use various productivity tools to gather authentic data as a basis for group programming projects		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) use program design problem-solving strategies to create program solutions			

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Subject	§126. Technology Application	ns		
Course Title			inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) define and specify the purpose and goals of solving a problem	(i) define the purpose of solving a problem		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) define and specify the purpose and goals of solving a problem	(ii) define the goals of solving a problem		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) define and specify the purpose and goals of solving a problem	(iii) specify the purpose of solving a problem		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) define and specify the purpose and goals of solving a problem	(iv) specify the goals of solving a problem		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(C) identify the subtasks needed to solve a problem			
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(D) identify the data types and objects needed to solve a problem	(i) identify the data types needed to solve a problem		

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TEKS (Knowledge and Student Expectation (4) Critical thinking, problem (D) identify the data types and solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The	Subject	§126. Technology Application	าร		
TEKS (Knowledge and (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (F) design a solution to a problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to an	Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	inning with School Year 2012-2	2013.
solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (E) identify reusable components from existing condessed and design algorithms. The student is expected to:  (E) identify reusable components from existing condessed analyze problems and design algorithms. The student is expected to:  (F) design a solution to a problem solving, and decision making. The student is expected to:  (G) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (B) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (B) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (A) Critical thinking, problems and design algorithms. The student is expected to:  (B) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (B) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The student is expected to:  (C) Critical thinking, problems and design algorithms. The stud	TEKS (Knowledge and	Student Expectation	Breakout		Subelement
The student uses appropriate strategies to analyze problem student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problem and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student seems and the strategies to analyze problems and t	(4) Critical thinking, problem	(D) identify the data types and	(ii) identify the objects needed		
strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student is expected to:  (4) Critical thinking, problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The algorithms. The algorithms. The algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The	solving, and decision making.	objects needed to solve a	to solve a problem		
student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problem solving, and decision making. The student uses appropriate strategies to analyze problem solving, and decision making. The student uses appropriate strategies to analyze problem solving, and decision making. The student uses appropriate strategies to analyze problem solving, and decision making. The student uses appropriate strategies to analyze problem solving, and decision making. The student uses appropriate strategies to analyze problem solving and decision making. The student uses appropriate strategies to analyze problem solving and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The additionally and debug errors (ii) debug errors	The student uses appropriate	problem	-		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The	strategies to analyze problems				
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The student uses appropriate strategies to analyze problems and design algorithms. The	and design algorithms. The				
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The student uses appropriate strategies to analyze problems and design algorithms. The		(11) Identity and debug entits	(ii) GCDUG EITOIS		
strategies to analyze problems and design algorithms. The					
and design algorithms. The					
	orage is expected to:				

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Subject	§126. Technology Application	ıs		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making.	Student Expectation (I) test program solutions with appropriate valid and invalid test data for correctness  (I) test program solutions with appropriate valid and invalid	Breakout  (i) test program solutions with appropriate valid test data for correctness  (ii) test program solutions with appropriate invalid test data for	Element	Subelement
The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	test data for correctness	correctness		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(i) debug problems using error messages		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(ii) debug problems using reference materials		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(iii) debug problems using language documentation		

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Subject	§126. Technology Application	ıs		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	Student Expectation (J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies  (J) debug and solve problems using error messages, reference materials, language	(iv) debug problems using effective strategies  (v) solve problems using error messages	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(vi) solve problems using reference materials		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(vii) solve problems using language documentation		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(J) debug and solve problems using error messages, reference materials, language documentation, and effective strategies	(viii) solve problems using effective strategies		

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Subject	§126. Technology Application	าร		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
<ul><li>(4) Critical thinking, problem solving, and decision making.</li><li>The student uses appropriate</li></ul>	(K) explore common algorithms, including greatest common divisor, finding the	(i) explore common algorithms, including greatest common divisor		
strategies to analyze problems and design algorithms. The student is expected to:	biggest number out of three, finding primes, making change, and finding the average			
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(K) explore common algorithms, including greatest common divisor, finding the biggest number out of three, finding primes, making change, and finding the average	(ii) explore common algorithms, including finding the biggest number out of three		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	finding primes, making change, and finding the average	(iii) explore common algorithms, including finding primes		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	finding primes, making change, and finding the average	(iv) explore common algorithms, including making change		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(K) explore common algorithms, including greatest common divisor, finding the biggest number out of three, finding primes, making change, and finding the average	(v) explore common algorithms, including finding the average		

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(L) analyze and modify existing code to improve the underlying algorithm			
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(L) analyze and modify existing code to improve the underlying algorithm			
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors, including division by zero and type mismatch	(i) create program solutions that exhibit robust behavior by understanding runtime errors, including division by zero		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors, including division by zero and type mismatch	(ii) create program solutions that exhibit robust behavior by understanding runtime errors, including type mismatch		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors, including division by zero and type mismatch	(iii) create program solutions that exhibit robust behavior by avoiding runtime errors, including division by zero		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors, including division by zero and type mismatch	(iv) create program solutions that exhibit robust behavior by avoiding runtime errors, including type mismatch		

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Subject	§126. Technology Application	าร		
Course Title			inning with School Year 2012-2	2013.
Course Title TEKS (Knowledge and (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems	Student Expectation  (M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors, including division by zero and type mismatch  (M) create program solutions that exhibit robust behavior by understanding, avoiding, and preventing runtime errors,	(One-Half to One Credit), Begin Breakout  (v) create program solutions that exhibit robust behavior by preventing runtime errors, including division by zero  (vi) create program solutions that exhibit robust behavior by preventing runtime errors, including type mismatch	Element	Subelement
and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	including division by zero and type mismatch  (N) select the most appropriate algorithm for a defined problem	3 71 ****		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division and modulus division	(i) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division and modulus division	(ii) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including subtraction		

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Subject	§126. Technology Application	ns		
Course Title			inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:  (4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems	(O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division and modulus division  (O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions,		Liement	Suberement
and design algorithms. The student is expected to:	including addition, subtraction, multiplication, real division, integer division and modulus division	including real division		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division and modulus division	(v) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including integer division		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(O) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division and modulus division	(vi) demonstrate proficiency in the use of the arithmetic operators to create mathematical expressions, including modulus division		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(P) create program solutions to problems using available mathematics libraries, including absolute value, round, power, square, and square root	(i) create program solutions to problems using available mathematics libraries, including absolute value		

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Subject	§126. Technology Application	ns		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(P) create program solutions to problems using available mathematics libraries, including absolute value, round, power, square, and square root	(ii) create program solutions to problems using available mathematics libraries, including round		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(P) create program solutions to problems using available mathematics libraries, including absolute value, round, power, square, and square root	(iii) create program solutions to problems using available mathematics libraries, including power		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(P) create program solutions to problems using available mathematics libraries, including absolute value, round, power, square, and square root	(iv) create program solutions to problems using available mathematics libraries, including square		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(P) create program solutions to problems using available mathematics libraries, including absolute value, round, power, square, and square root	(v) create program solutions to problems using available mathematics libraries, including square root		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(Q) develop program solutions that use assignment			
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(R) develop sequential algorithms to solve non-branching and non-iterative problems	(i) develop sequential algorithms to solve non- branching problems		

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Subject	§126. Technology Application	is .	
Course Title			nning with School Year 2012-2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	algorithms to solve non- branching and non-iterative	(ii) develop sequential algorithms to solve non-iterative problems	
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(S) develop algorithms to decision-making problems using branching control statements		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(T) develop iterative algorithms and code programs to solve practical problems	(i) develop iterative algorithms to solve practical problems	
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(T) develop iterative algorithms and code programs to solve practical problems	(ii) develop code programs to solve practical problems	
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(U) demonstrate proficiency in the use of the relational operators		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(V) demonstrate proficiency in the use of the logical operators		

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Subject	§126. Technology Application	ns		
Course Title		(One-Half to One Credit), Begin	nning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(W) generate and use random numbers	(i) generate random numbers		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(W) generate and use random numbers	(ii) use random numbers		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) discuss intellectual property, privacy, sharing of information, copyright laws, and software licensing agreements	(i) discuss intellectual property		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) discuss intellectual property, privacy, sharing of information, copyright laws, and software licensing agreements	(ii) discuss privacy		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) discuss intellectual property, privacy, sharing of information, copyright laws, and software licensing agreements	(iii) discuss sharing of information		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) discuss intellectual property, privacy, sharing of information, copyright laws, and software licensing agreements	(iv) discuss copyright laws		

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Subject	§126. Technology Application	าร		
Course Title			inning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The	(A) discuss intellectual	(v) discuss software licensing		
student explores and	property, privacy, sharing of	agreements		
understands safety, legal,	information, copyright laws,			
cultural, and societal issues	and software licensing			
relating to the use of	agreements			
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(B) model ethical acquisition	(i) model ethical acquisition of		
student explores and	and use of digital information	digital information		
understands safety, legal,				
cultural, and societal issues				
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(B) model ethical acquisition	(ii) model ethical use of digital		
student explores and	and use of digital information	information		
understands safety, legal,				
cultural, and societal issues				
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(C) demonstrate proper digital	(i) demonstrate proper digital		
student explores and	etiquette, responsible use of	etiquette		
understands safety, legal,	software, and knowledge of			
cultural, and societal issues	acceptable use policies			
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(C) demonstrate proper digital	(ii) demonstrate responsible		
student explores and	etiquette, responsible use of	use of software		
understands safety, legal,	software, and knowledge of	use of software		
cultural, and societal issues	acceptable use policies			
relating to the use of	acceptable use policies			
technology and information.				
The student is expected to:				
The student is expected to.				

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The	(C) demonstrate proper digital	(iii) demonstrate knowledge of		
student explores and	etiquette, responsible use of	acceptable use policies		
understands safety, legal,	software, and knowledge of			
cultural, and societal issues	acceptable use policies			
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(i) investigate measures,		
student explores and	including passwords and virus	including passwords to protect		
understands safety, legal,	detection/prevention, to protect	computer systems from		
cultural, and societal issues	computer systems and	unauthorized use		
relating to the use of	databases from unauthorized			
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(ii) investigate measures,		
student explores and	including passwords and virus	including passwords to protect		
understands safety, legal,	detection/prevention, to protect	computer systems from		
cultural, and societal issues	computer systems and	tampering		
relating to the use of	databases from unauthorized	_		
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(iii) investigate measures,		
student explores and	including passwords and virus	including passwords to protect		
understands safety, legal,	detection/prevention, to protect			
cultural, and societal issues	computer systems and	use		
relating to the use of	databases from unauthorized			
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(iv) investigate measures,		
student explores and	including passwords and virus	including passwords to protect		
understands safety, legal,	detection/prevention, to protect	databases from tampering		
cultural, and societal issues	computer systems and			
relating to the use of	databases from unauthorized			
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(v) investigate measures,		
student explores and	including passwords and virus	including virus		
understands safety, legal,	detection/prevention, to protect	detection/prevention to protect		
cultural, and societal issues	computer systems and	computer systems from		
relating to the use of	databases from unauthorized	unauthorized use		
technology and information.	use and tampering			
The student is expected to:				
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Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The	(D) investigate measures,	(vi) investigate measures,		
student explores and	including passwords and virus	including virus		
understands safety, legal,	detection/prevention, to protect	detection/prevention to protect		
cultural, and societal issues	computer systems and	computer systems from		
relating to the use of	databases from unauthorized	tampering		
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(vii) investigate measures,		
student explores and	including passwords and virus	including virus		
understands safety, legal,	detection/prevention, to protect	detection/prevention to protect		
cultural, and societal issues	computer systems and	databases from unauthorized		
relating to the use of	databases from unauthorized	use		
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(D) investigate measures,	(viii) investigate measures,		
student explores and	including passwords and virus	including virus		
understands safety, legal,	detection/prevention, to protect	detection/prevention to protect		
cultural, and societal issues	computer systems and	databases from tampering		
relating to the use of	databases from unauthorized			
technology and information.	use and tampering			
The student is expected to:				
(5) Digital citizenship. The	(E) investigate how technology	(i) investigate how technology		
student explores and	has changed and the social	has changed		
understands safety, legal,	and ethical ramifications of			
cultural, and societal issues	computer usage			
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(E) investigate how technology	(ii) investigate the social		
student explores and	has changed and the social	ramifications of computer		
understands safety, legal,	and ethical ramifications of	usage		
cultural, and societal issues	computer usage			
relating to the use of				
technology and information.				
The student is expected to:				
(5) Digital citizenship. The	(E) investigate how technology	(iii) investigate the ethical		
student explores and	has changed and the social	ramifications of computer		
understands safety, legal,	and ethical ramifications of	usage		
cultural, and societal issues	computer usage			
relating to the use of				
technology and information.				
The student is expected to:				

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) compare and contrast types of operating systems, software applications, and programming languages	(i) compare types of operating systems, software applications, and programming languages		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) compare and contrast types of operating systems, software applications, and programming languages	(ii) contrast types of operating systems, software applications, and programming languages		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) demonstrate knowledge of major hardware components, including primary and secondary memory, a central processing unit (CPU), and peripherals	(i) demonstrate knowledge of major hardware components, including primary memory		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) demonstrate knowledge of major hardware components, including primary and secondary memory, a central processing unit (CPU), and peripherals	(ii) demonstrate knowledge of major hardware components, including secondary memory		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) demonstrate knowledge of major hardware components, including primary and secondary memory, a central processing unit (CPU), and peripherals	(iii) demonstrate knowledge of major hardware components, including a central processing unit (CPU)		

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Subject	§126. Technology Application	ns		
Course Title			nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	major hardware components,	(iv) demonstrate knowledge of major hardware components, including peripherals		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:		(i) differentiate between current programming languages		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:		(ii) discuss the use of [current programming] languages in other fields of study		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) differentiate among current programming languages, discuss the use of those languages in other fields of study, and demonstrate knowledge of specific programming terminology and concepts	specific programming terminology		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) differentiate among current programming languages,	(iv) demonstrate knowledge of specific programming concepts		

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Subject	§126. Technology Application	ıs		
Course Title			inning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:  (6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply	(D) differentiate between a high-level compiled language and an interpreted language  (E) understand concepts of object-oriented design	Breakout	Liement	Subelement
to computer science. The student is expected to:				
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(F) use local and global scope access variable declarations	(i) use local scope access variable declarations		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(F) use local and global scope access variable declarations	(ii) use global scope access variable declarations		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(G) encapsulate data and associated subroutines into an abstract data type	(i) encapsulate data into an abstract data type		

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Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(G) encapsulate data and associated subroutines into an abstract data type	(ii) encapsulate associated subroutines into an abstract data type		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) create subroutines that do not return values with and without the use of arguments and parameters	(i) create subroutines that do not return values with the use of arguments		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) create subroutines that do not return values with and without the use of arguments and parameters	(ii) create subroutines that do not return values with the use of parameters		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) create subroutines that do not return values with and without the use of arguments and parameters	(iii) create subroutines that do not return values without the use of arguments		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) create subroutines that do not return values with and without the use of arguments and parameters	(iv) create subroutines that do not return values without the use of parameters		

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Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:  (6) Technology operations, systems, and concepts. The student understands	(I) create subroutines that return typed values with and without the use of arguments and parameters  (I) create subroutines that return typed values with and without the use of arguments	(i) create subroutines that return typed values with the use of arguments  (ii) create subroutines that return typed values with the use of parameters	Element	Subelement
technology concepts, systems, and operations as they apply to computer science. The student is expected to:	and parameters			
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(I) create subroutines that return typed values with and without the use of arguments and parameters	(iii) create subroutines that return typed values without the use of arguments		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(I) create subroutines that return typed values with and without the use of arguments and parameters	(iv) create subroutines that return typed values without the use of parameters		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(J) understand and identify the data-binding process between arguments and parameters	(i) understand the data-binding process between arguments and parameters		

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Course Title	§126.33. Computer Science I	(One-Half to One Credit), Beg	inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(J) understand and identify the data-binding process between arguments and parameters	(ii) identify the data-binding process between arguments and parameters		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) compare objects using reference values and a comparison routine	(i) compare objects using reference values		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) compare objects using reference values and a comparison routine	(ii) compare objects using a comparison routine		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) understand the binary representation of numeric and nonnumeric data in computer systems	(i) understand the binary representation of numeric data in computer systems		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) understand the binary representation of numeric and nonnumeric data in computer systems	(ii) understand the binary representation of nonnumeric data in computer systems		

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) understand the finite limits of numeric data			
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(N) perform numerical conversions between the decimal and binary number systems and count in the binary number system	(i) perform numerical conversions between the decimal and binary number systems		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(N) perform numerical conversions between the decimal and binary number systems and count in the binary number system	(ii) count in the binary number system		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(i) choose the appropriate data types for integer data when writing program solutions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(ii) choose the appropriate data types for real data when writing program solutions		

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Subject	§126. Technology Application	IS		
Course Title		(One-Half to One Credit), Begi	inning with School Year 2012-2	
TEKS (Knowledge and (6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	Student Expectation (O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	Breakout (iii) choose the appropriate data types for Boolean data when writing program solutions	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(iv) identify the appropriate data types for integer data when writing program solutions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(v) identify the appropriate data types for real data when writing program solutions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(vi) identify the appropriate data types for Boolean data when writing program solutions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(vii) use the appropriate data types for integer data when writing program solutions		

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Subject	§126. Technology Application	ıs		
Course Title			inning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(viii) use the appropriate data types for real data when writing program solutions		
to computer science. The student is expected to:				
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(O) choose, identify, and use the appropriate data types for integer, real, and Boolean data when writing program solutions	(ix) use the appropriate data types for Boolean data when writing program solutions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(P) demonstrate an understanding of the concept of a variable			
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(Q) demonstrate an understanding of and use reference variables for objects	(i) demonstrate an understanding of reference variables for objects		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(Q) demonstrate an understanding of and use reference variables for objects	(ii) use reference variables for objects		

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Subject	§126. Technology Application	าร		
Course Title		(One-Half to One Credit), Begi	inning with School Year 2012-	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(R) demonstrate an understanding of how to represent and manipulate text data, including concatenation and other string functions	(i) demonstrate an understanding of how to represent text data, including concatenation		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(R) demonstrate an understanding of how to represent and manipulate text data, including concatenation and other string functions	(ii) demonstrate an understanding of how to represent text data, including other string functions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(R) demonstrate an understanding of how to represent and manipulate text data, including concatenation and other string functions	(iii) demonstrate an understanding of how to manipulate text data, including concatenation		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(R) demonstrate an understanding of how to represent and manipulate text data, including concatenation and other string functions	(iv) demonstrate an understanding of how to manipulate text data, including other string functions		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(S) demonstrate an understanding of the concept of scope			

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Course Title	§126.33. Computer Science I	One-Half to One Credit), Begin	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(i) identify the structured data type of one-dimensional arrays to traverse data		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(ii) identify the structured data type of one-dimensional arrays to search data		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(iii) identify the structured data type of one-dimensional arrays to modify data		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(iv) use the structured data type of one-dimensional arrays to traverse data		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(v) use the structured data type of one-dimensional arrays to search data		

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I	(One-Half to One Credit), Begi	nning with School Year 2012-2	2013.
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(T) identify and use the structured data type of one-dimensional arrays to traverse, search, and modify data	(vi) use the structured data type of one-dimensional arrays to modify data		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(i) choose the appropriate data type to properly represent the data in a program problem solution		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(ii) choose the appropriate data structure to properly represent the data in a program problem solution		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(iii) identify the appropriate data type to properly represent the data in a program problem solution		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(iv) identify the appropriate data structure to properly represent the data in a program problem solution		

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Subject	§126. Technology Application	ıs		
Course Title	§126.33. Computer Science I (One-Half to One Credit), Beginning with School Year 2012-2013.			
TEKS (Knowledge and	Student Expectation	Breakout	Element	Subelement
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(v) use the appropriate data type to properly represent the data in a program problem solution		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(U) choose, identify, and use the appropriate data type and structure to properly represent the data in a program problem solution	(vi) use the appropriate data structure to properly represent the data in a program problem solution		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(V) compare and contrast strongly typed and un-typed programming languages	(i) compare strongly typed and un-typed programming languages		
(6) Technology operations, systems, and concepts. The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(V) compare and contrast strongly typed and un-typed programming languages	(ii) contrast strongly typed and un-typed programming languages		

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