Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	lopment (One-Half to One Credit),	Beginning with School	Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student	(D) create browser-based			
develops products and generates new	applications for mobile devices			
understanding by extending existing				
knowledge. The student is expected to:				
(1) Creativity and innovation. The student	(E) create native applications that			
develops products and generates new	can reside on specified mobile			
understanding by extending existing	devices			
knowledge. The student is expected to:				
(1) Creativity and innovation. The student	(F) create mobile applications that	(i) create mobile applications that		
develops products and generates new	combine native and hybrid	combine native components		
understanding by extending existing	components			
knowledge. The student is expected to:				
(1) Creativity and innovation. The student	(F) create mobile applications that	(ii) create mobile applications that		
develops products and generates new	combine native and hybrid	combine hybrid components		
understanding by extending existing	components			
knowledge. The student is expected to:				
(2) Communication and collaboration. The	(A) demonstrate an understanding	(i) demonstrate an understanding		
student communicates and collaborates	of and discuss how teams function	of how teams function		
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	, ,	(ii) discuss how teams function		
student communicates and collaborates	of and discuss how teams function			
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	problems			
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	workflow of mobile applications			
with peers to contribute to his or her own				
learning and the learning of others. The				
student is expected to:				

Page 2 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	lopment (One-Half to One Credit),	Beginning with School	l Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The		(iii) describe input requirements		
student locates, analyzes, processes, and	input, output, and processing			
organizes data. The student is expected	requirements			
to:				
(3) Research and information fluency. The		(iv) analyze output requirements		
student locates, analyzes, processes, and				
organizes data. The student is expected	requirements			
to:				
(3) Research and information fluency. The		(v) identify output requirements		
student locates, analyzes, processes, and				
	requirements			
to:				
(3) Research and information fluency. The		(vi) describe output requirements		
student locates, analyzes, processes, and				
organizes data. The student is expected	requirements			
to:	(0)	( ···)		
(3) Research and information fluency. The		(vii) analyze processing		
student locates, analyzes, processes, and		requirements		
	requirements			
to: (3) Research and information fluency. The	(C) analyza identify and describe	(viii) identify processing		
student locates, analyzes, processes, and		requirements		
organizes data. The student is expected	requirements	requirements		
to:	requirements			
(3) Research and information fluency. The	(C) analyze identify and describe	(ix) describe processing		
student locates, analyzes, processes, and		requirements		
organizes data. The student is expected	requirements	Toqui omonio		
to:				
(3) Research and information fluency. The	(D) analyze, identify, and define	(i) analyze hardware specifications		
student locates, analyzes, processes, and				
organizes data. The student is expected	specifications			
to:				
(3) Research and information fluency. The	(D) analyze, identify, and define	(ii) identify hardware specifications		
student locates, analyzes, processes, and	hardware and software			
	specifications			
to:				

Page 5 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	lopment (One-Half to One Credit),	Beginning with School	Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The		(iii) define hardware specifications		
student locates, analyzes, processes, and	hardware and software			
organizes data. The student is expected	specifications			
to:				
(3) Research and information fluency. The	(D) analyze, identify, and define	(iv) analyze software specifications		
student locates, analyzes, processes, and	hardware and software			
organizes data. The student is expected	specifications			
to:				
(3) Research and information fluency. The		(v) identify software specifications		
student locates, analyzes, processes, and				
organizes data. The student is expected	specifications			
to:				
(3) Research and information fluency. The	(D) analyze, identify, and define	(vi) define software specifications		
student locates, analyzes, processes, and	hardware and software			
organizes data. The student is expected	specifications	(A) cn/e]4s0iate strategies to	analyze	
to:				
(4) Critical thinking, problem solving, and	(A) cn/e]4s0iate strategies to analyz			
decision making. The student uses	problems and design algorithms. Th	e		
appropriate strategies to analyze	student is expected to:			
problems and design algorithms. The				
student is expected to:				

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Devel	opment (One-Half to One Credit),	Beginning with School	Year 2012-2013
TEKS (Knowledge and Skills)	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:	(C) compare and contrast available development approaches, including application to specific technologies and platforms	approaches, including application		
(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) compare and contrast available development approaches, including application to specific technologies and platforms	approaches, including application		
(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) compare and contrast available development approaches, including application to specific technologies and platforms	approaches, including application to specific technologies		
(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) compare and contrast available development approaches, including application to specific technologies and platforms	approaches, including application		
(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) determine the most appropriate solution for the development of a given mobile application, including browser-based, native, and hybrid approaches	(i) determine the most appropriate solution for the development of a given mobile application, including browser-based approaches		
(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) determine the most appropriate solution for the development of a given mobile application, including browser-based, native, and hybrid approaches	(ii) determine the most appropriate solution for the development of a given mobile application, including native approaches		
(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) determine the most appropriate solution for the development of a given mobile application, including browser-based, native, and hybrid approaches	(iii) determine the most appropriate solution for the development of a given mobile application, including hybrid approaches		

Page 7 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	Iopment (One-Half to One Credit),	Beginning with Schoo	l Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(i) compare available programming		
decision making. The student uses	programming languages and how	languages		
appropriate strategies to analyze	their use might be applied to			
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(ii) contrast available programming		
decision making. The student uses	programming languages and how	languages		
appropriate strategies to analyze	their use might be applied to			
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(iii) compare how use [of available		
decision making. The student uses	programming languages and how	programming languages] might be		
appropriate strategies to analyze	their use might be applied to	applied to specific technologies		
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(iv) contrast how use [of available		
decision making. The student uses	programming languages and how	programming languages] might be		
appropriate strategies to analyze	their use might be applied to	applied to specific technologies		
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(v) compare how use [of available		
decision making. The student uses	programming languages and how	programming languages] might be		
appropriate strategies to analyze	their use might be applied to	applied to specific platforms		
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(E) compare and contrast available	(vi) contrast how use [of available		
decision making. The student uses	programming languages and how	programming languages] might be		
appropriate strategies to analyze	their use might be applied to	applied to specific platforms		
problems and design algorithms. The	specific technologies and platforms			
student is expected to:				
(4) Critical thinking, problem solving, and	(F) identify and justify the selection	(i) identify the selection of an		
decision making. The student uses	of an appropriate programming	appropriate programming		
appropriate strategies to analyze	language, including available	language, including available		
problems and design algorithms. The	resources and required interfaces	resources		
student is expected to:				

Page 8 of 15 Updated: 11/5/2012

Subject	Subject §126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	Iopment (One-Half to One Credit),	Beginning with School	Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and	(F) identify and justify the selection	(ii) justify the selection of an		
decision making. The student uses	of an appropriate programming	appropriate lection		
appropriate strategies to analyze	language, including available	of an appropriate programming		
problems and design algorithms. The	resources and required interfaces			
student is expected to:				

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Devel	lopment (One-Half to One Credit),	Beginning with School	l Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and	(I) evaluate and justify the selection	(ii) justify the selection of		
decision making. The student uses	of appropriate options and	appropriate options		
appropriate strategies to analyze	components			
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(I) evaluate and justify the selection	(iii) evaluate the selection of		
decision making. The student uses	of appropriate options and	appropriate components		
appropriate strategies to analyze	components			
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(I) evaluate and justify selection of	(iv) justify the selection of		
decision making. The student uses	appropriate options and	appropriate components		
appropriate strategies to analyze	components			
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(J) compare and contrast available	(i) compare available networks		
decision making. The student uses	networks and their implications for			
appropriate strategies to analyze	mobile application development			
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(J) compare and contrast available	(ii) contrast available networks		
decision making. The student uses	networks and their implications for			
appropriate strategies to analyze	mobile application development			
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(J) compare and contrast available	(iii) compare [available networks']		
decision making. The student uses	networks and their implications for	implications for mobile application		
appropriate strategies to analyze	mobile application development	development		
problems and design algorithms. The				
student is expected to:				
(4) Critical thinking, problem solving, and	(J) compare and contrast available	(iv) contrast [available networks']		
decision making. The student uses	networks and their implications for	implications for mobile application		
appropriate strategies to analyze	mobile application development	development		
problems and design algorithms. The		·		
student is expected to:				

Page 10 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	opment (One-Half to One Credit),	Beginning with School	ol Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and	(K) compare and contrast design	(i) compare design strategies		
decision making. The student uses	strategies related to mobile network	related to mobile network security		
appropriate strategies to analyze	and device security	and device security		
problems and design algorithms. The	·			
student is expected to:				
(4) Critical thinking, problem solving, and	(K) compare and contrast design	(iii) contrast design strategies		
decision making. The student uses	strategies related to mobile network	related to mobile network security		
appropriate strategies to analyze	and device security	and device security		
problems and design algorithms. The				
student is expected to:				
(5) Digital citizenship. The student	(A) discuss copyright laws and	(i) discuss copyright laws		
explores and understands safety, legal,	issues			
cultural, and societal issues relating to the				
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(A) discuss copyright laws and	(ii) discuss copyright issues		
explores and understands safety, legal,	issues			
cultural, and societal issues relating to the				
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(B) model ethical acquisition and	(i) model ethical acquisition of		
explores and understands safety, legal,	use of digital information	digital information		
cultural, and societal issues relating to the				
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(B) model ethical acquisition and	(ii) model ethical use of digital		
explores and understands safety, legal,	use of digital information	information		
cultural, and societal issues relating to the				
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(C) cite sources using established			
explores and understands safety, legal,	methods			
cultural, and societal issues relating to the				
use of technology and information. The				
student is expected to:				

Page 11 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications			
Course Title	§126.39. Mobile Application Deve	lopment (One-Half to One Credit),	Beginning with Scho	ool Year 2012-2013
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The student	(D) demonstrate proper digital	(i) demonstrate proper digital		
explores and understands safety, legal,	etiquette and knowledge of	etiquette		
cultural, and societal issues relating to the	acceptable use policies			
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(D) demonstrate proper digital	(ii) demonstrate knowledge of		
explores and understands safety, legal,	etiquette and knowledge of	acceptable use policies		
cultural, and societal issues relating to the	acceptable use policies			
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(E) investigate mobile device	(i) investigate mobile device		
explores and understands safety, legal,	security measures such as	security measures		
cultural, and societal issues relating to the	passwords, virus detection, and			
use of technology and information. The	virus prevention			
student is expected to:				
(5) Digital citizenship. The student	(F) describe potential risks and	(i) describe potential risks		
explores and understands safety, legal,	benefits associated with the use of	associated with the use of a mobile		
cultural, and societal issues relating to the	a mobile application	application		
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(F) describe potential risks and	(ii) describe potential benefits		
explores and understands safety, legal,	benefits associated with the use of	associated with the use of a mobile		
cultural, and societal issues relating to the	a mobile application	application		
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(G) identify current and emerging	(i) identify current technologies		
explores and understands safety, legal,	technologies related to mobile	related to mobile applications		
cultural, and societal issues relating to the	applications			
use of technology and information. The				
student is expected to:				
(5) Digital citizenship. The student	(G) identify current and emerging	(ii) identify emerging technologies		
explores and understands safety, legal,	technologies related to mobile	related to mobile applications		
cultural, and societal issues relating to the	applications			
use of technology and information. The				
student is expected to:				

Page 12 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications					
Course Title	§126.39. Mobile Application Development (One-Half to One Credit), Beginning with School Year 2012-2013					
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement		
(5) Digital citizenship. The student	(H) evaluate technologies and	(i) evaluate technologies				
explores and understands safety, legal,	assess their applicability to current					
cultural, and societal issues relating to the	mobile applications					
use of technology and information. The						
student is expected to:						
(5) Digital citizenship. The student	(H) evaluate technologies and	(ii) assess their [technologies]				
explores and understands safety, legal,	assess their applicability to current	applicability to current mobile				
cultural, and societal issues relating to the	mobile applications	application				
use of technology and information. The						
student is expected to:						
(6) Technology operations and concepts.	(A) demonstrate an understanding					
The student understands technology	of the difference between desktop					
concepts, systems, and operations as	and mobile applications					
they apply to computer science. The						
student is expected to:						
(6) Technology operations and concepts.	(B) demonstrate an understanding	(i) demonstrate an understanding				
The student understands technology	of hardware and software	of hardware structures in the				
concepts, systems, and operations as	structures and requirements in the	design of mobile applications				
they apply to computer science. The	design of mobile applications					
student is expected to:						
(6) Technology operations and concepts.	(B) demonstrate an understanding	(ii) demonstrate an understanding				
The student understands technology	of hardware and software	of software structures in the design				
concepts, systems, and operations as	structures and requirements in the	of mobile applications				
they apply to computer science. The	design of mobile applications					
student is expected to:						
(6) Technology operations and concepts.	(B) demonstrate an understanding	(iii) demonstrate an understanding				
The student understands technology	of hardware and software	of hardware requirements in the				
concepts, systems, and operations as	structures and requirements in the	design of mobile applications				
they apply to computer science. The	design of mobile applications					
student is expected to:						
(6) Technology operations and concepts.	(B) demonstrate an understanding	(iv) demonstrate an understanding				
The student understands technology	of hardware and software	of software requirements in the				
concepts, systems, and operations as	structures and requirements in the	design of mobile applications				
they apply to computer science. The	design of mobile applications					
student is expected to:						

Page 13 of 15 Updated: 11/5/2012

Subject	§126. Technology Applications					
Course Title	§126.39. Mobile Application Development (One-Half to One Credit), Beginning with School Year 2012-2013					
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement		
(6) Technology operations and concepts.	(G) demonstrate an understanding	(ii) demonstrate an understanding				
The student understands technology	of how low bandwidth and the	of how the mobility of a device				
concepts, systems, and operations as	mobility of a device affect the	affect the design of mobile				
they apply to computer science. The	design of mobile applications	applications				
student is expected to:						
(6) Technology operations and concepts.	(H) identify applications that are					
The student understands technology	best suited for mobile devices					
concepts, systems, and operations as						
they apply to computer science. The						
student is expected to:						
(6) Technology operations and concepts.	(I) demonstrate an understanding of	f				
The student understands technology	the use of libraries when designing					
concepts, systems, and operations as	mobile applications					
they apply to computer science. The						
student is expected to:						
(6) Technology operations and concepts.	(J) use a simulation tool to emulate					
The student understands technology	a mobile device's functionality					
concepts, systems, and operations as						
they apply to computer science. The						
student is expected to:						
(6) Technology operations and concepts.	(K) use actual mobile devices to					
The student understands technology	test mobile applications					
concepts, systems, and operations as						
they apply to computer science. The						
student is expected to:						

Page 15 of 15 Updated: 11/5/2012