CodeBot				ect 2		ect 3		ect 4		ect 5		ect 6	7	ect 7		ect 8				,	dig	- uce	s	
Fundamentals of		=	7	Proj	3	Project	4	Proj	5	Proj	9 1	Proj	Z 2	Proj	89	Proj	6 1	10	NAL S	6	Citizenship	Science	age	
Computer Science	Specific Standards	Project 1	Project 2	Remix Project	Project .	Remix	Project 4	Remix Project	Project 5	Remix Project	Project	Remix Project	OPIION Project 7	Remix Project	Project 8	Remix Project	Project 9	Project 10	ADDITIONAL PROJECTS Overview	Technology	Dig. Cit	o.	Web Pages	
(1) Employability. The student identifies	(A) Identify job and internship opportunities and accompanying job duties and tasks and	ď	ď.	ž	<u>a</u>	ž	- E	ž	-F	Ž.	-F	ž	۵	2	-E	Σ.	P	Pı	AE O	l ₂		ŏ	5	
various employment opportunities in the computer science field.	contact one or more companies or organizations to explore career opportunities																					>		
	(B) examine the role of certifications, resumes, and portfolios in the computer science profession																					>	(
	(C) Employ effective technical reading and writing skills	X	X	X	X	X	X	Х	X	Х	Х	X	×	Х	X	Х	Х	Χ						
	(D) Employ effective verbal and non-verbal communication skills			X	ļ.,	X		X		X		X		X		Х	Х	Χ		_			X	
	(E) Solve problems and think critically		X	X	X	X	X	X	X	X	Х	X	X	X	X	Х	Х	Χ				_	X	
	(F) Demonstrate leadership skills and function effectively as a team member (G) Demonstrate an understanding of legal and ethical responsibilities in relation to the		-	Х	-	Х		Х		Х		X		Х		Х	Х	Х		-		_	_	
	(H) Demonstrate planning and time-management skills			X		X		X		X		×		X		٧/	X	X				>	_	
	(I) Compare university computer science programs		-	<u> </u>		+^	-	^				^				Х	×	Х.		+	_	-	, X	
(2) Creativity and innovation. The	(A) Investigate and explore various career opportunities within the computer science																						`	
(2) Creativity aim initivation: The student develops products and generates new knowledge, understanding, and skills. (3) Communication and collaboration.	field and report findings through various media.		X								V	V	V	V		.,	.,	.,				>	X	
	(B) Create algorithms for the solution of various problems.		×	Х	X	X	X	Х	Х	Х	Х	×	×	Х	X	Х	Х	Х		+	_	+	_	
	(C) Discuss methods and create and publish web pages using a web-based language such as HTML, Java Script, or XML				_																		X	
	(D) Use generally accepted design standards for spacing, fonts and color schemes to create functional user interfaces, including static and interactive screens.																						X	
The student communicates and collaborates with peers to contribute to his or her own learning and the learning	(A) Seek and respond to advice or feedback from peers, educators, or professionals when evaluating problem solutions.			X		X		X		X		X		X		X	X	X						
	(B) Debug and solve problems using reference materials and effective strategies.		X	Х	X	X	X	Х	X	Х	Х	×	×	Х	Х	Х	Х	Х		+	_	_	_	
of others.	(C) Publish information in a variety of ways such as print, monitor display, web pages, or video.			X		X	X	X	×	X	Х	X	×	Х	X	Х	X	Х			()	$\langle \ \ \rangle$	(X	
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms.	(A) Demonstrate the ability to insert external stand alone objects such as scripts or widgets into web pages.																						×	
	(8) Communicate an understanding of binary representation of data in computer systems, perform conversions between decimal and binary number systems, and count in binary number systems.	×	×				x	x												1	<			
	(C) Identify a problem's description, purpose and goals.		Х	Х	Х	X	Х	Х	Х	Х	Х	X	X	Х	Х	Х	Х	Х						
	(D) Demonstrate coding proficiency in a programming language by developing solutions that create stories, games and animations.		х	Х	×	х	х	х	х	х	×	×	×	Х	×	Х	х	Х						
	(E) Identify and use the appropriate data type to properly represent the data in a program problem solution.		×	x	×	×	×	×	×	×	×	×	×	х	×	Х	х	Х						
	(F) Communicate an understanding of and use variables within a programmed story, game or animation.		×	Х	×	Х	×	×	X	×	х	×	×	Х	х	Х	Х	Х						
	(C) Use arithmetic operators to create mathematical expressions, including addition, subtraction, multiplication, real division, integer division, and modulus division.				×	X	X	X	×	X	×	×	×	Х	×	Х	Х	Х						
	(H) Communicate an understanding of and use sequence within a programmed story, game or animation.		X	X	×	X	X	×	×	X	×	×	×	Х	×	Х	Х	Х						
	(I) Communicate an understanding of and use conditional statements within a programmed story, game or animation.		X	Х	Х	Х	×	Х	Х	Х	Х	×	×	Х	Х	Х	Х	Х						
	(I) Communicate an understanding of and use iteration within a programmed story, game or animation. (K) Use random numbers within a programmed story, game or animation.				X	X	×	X	X	X	Х	X	×	Х	Х	Х	Х	Х						
	(L) Test program solutions by investigating intended outcomes.		X	X	X	X	X	X	X	X	X	X	×	X	X	X	Х	X						
(5) Digital citizenship. The student	(A) Discuss privacy and copyright laws and model ethical acquisition of digital		^	^		^	^	^	^	^	^	^	^	^	^	^	^	^		+				
explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information.	(B) Compare various non-copyright asset sharing options such as open source, freeware (B) Compare various non-copyright asset sharing options such as open source, freeware																				+	<u> </u>	×	
	and public domain. (C) Demonstrate proper digital etiquette and knowledge of acceptable use policies when																				+	<u> </u>		
	using networks. (D) Explain the value of strong passwords and virus detection and prevention for privacy																		>		_	<u> </u>		
	(E) Discuss and give examples of the impact of computing and computing-related																			,	+	<u> </u>	, ,,	
	advancements on society)			()	X	
	(F) Analyze how electronic media can affect the reliability of information.																				_	<		
(6) Technology operations and concepts. The student understands technology concepts, systems, and	(A) Identify and explain the function of basic computer components, including a central processing unit (CPU), storage, and peripheral devices.	X		V			X		X		X		X				ν.		>		(
operations as they apply to computer	(B) Use system tools, including appropriate file management.	X	X	X	X	X	X	Х	Х	X	Х	X	X	Х	X	Х	Х	Х	>					

	Specific Standards	Project 1	Project 2	Remix Project 2	Project 3	Remix Project 3	Project 4	Remix Project 4	Project 5	Remix Project 5	t 6	Remix Project 6	Project 7	Remix Project 7	Project 8	Remix Project 8	Project 9	Project 10	ADDITIONAL PROJECTS	Overview	Technology	Dig. Citizenship	Comp. Science	Web Pages	
science.	(C) Compare different operating systems.																				Х				
	(D) Describe the differences between an application and an operating system.																				Х				
	(E) Use various input, processing, output and primary/secondary storage devices				Х	Х	Х	Х	Х	Х	Х	X	X	Х	Х	Х	Х	X		Х	Х				