Computer Science Principles At-A-Glance - Lamar CISD

Ongoing	Professional Standards/Employability Skills/Technical Skills			
Skills Imbedded All Year				
Grading Period	Unit Name	Estimated Time Frame	TEKS	
	Unit 0: Course Introduction	5 Days		
	In this introduction, the expectations and course structures will be established. Students will establish accounts for the resources that will be used through the class.			
Grading Period 1 29 Days	Unit 1: Introduction to Programming (Karel the Dog)	10 Days		
	 Abstractions Programming Style Control Structures Debugging Strategies Designing Algorithms Pair-Programming Activity 			
	Unit 2: Programming with JavaScript	14 Days		
	 Programming Languages Variables Arithmetic Expressions User Input 			
	Unit 3: JavaScript Control Structures	11 Days		
Grading Period 2	 Comparison Operators Selection Iteration 			
26 Days	Unit 4: Functions and Parameters	15 Days		
	 Parameters Return Values PT Practice 			
Grading Period 3 <mark>25 Days</mark>	Unit 5: Basic Data Structures	10 Days		
	 Data Structures Data Abstractions Traversing a List Algorithm Efficiency Simulation 			
	Unit 6: Digital Information	15 Days		
	 Number Systems Data Compression Cryptography PT Practice 			

Grading Period 4 32 Days	Unit 7: Internet	14 Days
	 Internet Hardware and Addresses Routing Packets and Protocols Computing Systems Impact of the Internet Cybersecurity PT Practice 	
	Unit 8: Data	4 Days
	Visualizing and Interpreting DataCollecting Data and Data Limitations	
	Unit 9: Create PT	14 Days
	 Practice PT Preparation Programming Period 	
Grading Period 5 <mark>32 Days</mark>	Unit 9: Create PT	10 Days
	 Practice PT Preparation Programming Period 	
	Unit 10: AP Exam	12 Days
	Scheduled Mock Exam TBDBig Ideas Review	
	Unit 11: Creative Development Projects	10 Days
Grading Period 6 <mark>29 Days</mark>	Unit 10: AP Exam	1 Day
	Unit 11: Creative Development Projects	28 Days
	Remainder of the six weeks period following the AP exam.	