

## AP Computer Science Principles 3 & 4 Scope & Sequence: Year 2

Semester 1		Semester 2	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
		Technical Standards: 1.0, 4.0, 5.0, 6.0, 7.0, 8.0, 12.0, 13.0 Professional Standards: 1.0, 2.0, 3.0, 4.0, 5.0  Unit 5 Building Apps Intro to Event-Driven Programming Multi-Screen Apps Building an App: Multi-Screen App Controlling Memory with Variables Building an App: Clicker Game User Input and Strings If-statements Unplugged Boolean Expressions and "if" Statements "if-else-if" and Conditional Logic Building an App: Color Sleuth While Loops Loops and Simulations Introduction to Arrays	Technical Standards: 1.0, 4.0, 5.0, 6.0, 7.0, 8.0, 12.0, 13.0 Professional Standards: 1.0, 2.0, 3.0, 4.0, 5.0  AP Performance Task Prep CREATE Students will practice and then complete the Create Performance Task (PT).  Explore PT - Review the Task Explore PT - Make a Plan Explore PT - Complete the Task Technical Standards: 8.0, 12.0, 13.0 Professional Standards: 1.0, 2.0, 3.0, 4.0, 5.0 Unit 6 (optional) Post AP: Manipulating and Visualizing Data Intro to Data Good and Bad Data Visualizations Making Data Visualizations Discover a Data Story
Professional Standards: 1.0, 2.0, 3.0, 4.0, 5.0	<u>Unit 4</u>	Loops and Simulations	Making Data Visualizations



51% of the entire program will be conducted in a lab setting. The lab consists of hand-on learning projects and experiences where student will practice the necessary skills to complete the current unit study.



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Semester 1		Semester 2			
Quarter 1	Quarter 2	Quarter 3	Quarter 4		
	Simple Encryption				
	Encryption with Keys and				
	Passwords				
	Public Key and Cryptography				
	Rapid Research: Cybercrime				