

AP Computer Science Unit 2: Primitive Data Types and Objects

Unit #:	APSDO-00019733	Duration:	3.0 Week(s)	Date(s):		
Team: Jeanine LaBrosse (Author), Jeanine LaBrosse, Jaclyn Lawlor Grades: 11, 12 Subjects: Mathematics, Science						
Unit Focus						
In this unit, students will focus on the Java primitive data types int, double, boolean and char. Students are introduction to the concept of objects using the String class. Students learn about the size and magnitude of built in data types. Students use the assignment statement and operator precedence. Summative assessments may include projects, labs and tests. Primary instructional materials include: Java Software Solutions for AP Computer Science, Lewis, Loftus and Cocking, APCentral Computer Science Course Webpage.						
Established Goals		Tra	Transfer			
Common Core Mathematics: 11 • Understand that a function from one set (called the domain) to another set		T2 (T14) Per T3 (T31) Re	 T1 (T10) Describe, classify, and compare objects/numbers and sets of objects/numbers. T2 (T14) Perform operations within the real and complex number system. T3 (T31) Represent, summarize, and interpret data to clarify and solve problems or to make informed decisions. 			
(called	d the range) assigns to each ent of the domain exactly one ent of the range. If f is a function		Meaning			
eleme		n	Understandings	Eco		
	is an element of its domain, th	en	onacistanangs	ESS	ential Questions	

viewing one or more of their parts as a single entity. For example, interpret P(1+r)n as the product of P and a factor not depending on P. CCSS.MATH.CONTENT.HSA.SSE.A.1.B	specifying units of measure and labeling, leads to clarity in expressing mathematical information.	Q3 (Q550) Did I use clear language (symbols, labels, terms, units of measure and significant digits) to explain my reasoning to others?				
• Attend to precision. CCSS.MATH.MP.6	Acquisition of Knowledge and Skill					
	Knowledge	Skills				
		S1				
		Classification of data into primitive data types int, double, char and boolean				
		S2				
		Assignment statements with correct data types				
		53				
		Programming mathematical expressions with appropriate data structures				
		S4				
		The manipulation of string objects				
		S5				
		The declaration and instantiation of objects from the standard Java libraries				
Stage 3: Learning Plan						
Coding Code	Description of Learning Activity					