

Middle School iOS App Development Scope & Sequence

Grading Period	Unit Title	Learning Targets
First Grading Period	Print Statements and Strings	 Introduction to Coding and Algorithms print() functions Vocab: playgrounds, output, function, console Double quotes "" Concatenation (+) Escape Characters (for single quotes, backslash, and tabs) Storing values (let vs var, the assignment operator =) Multi-Literal Strings Changing var values (the assignment operator =) Comments (\\ vs * *\) readLine() function (MAC OS console apps only) Interpolation
	Data Types and Basic Math Functions	 Data Types Int, Double, Bool, String How to store in all data types and what to store Type Inference Type Safety Basic math operators (+,-,*,\) using Int and Double Modulus function (%) and how it works with Int and Double
	Operations and Type Casting	 Compound assignments (+=, -=, *=, \=, %=) Order of operations Numeric Type Conversion Type Casting Random Numbers (arc4random_uniform(x))

		Optionals (wrapping & unwrapping)
		Creating their 1st app
		xCode project, labels, textFields, button, linking, compile, run, debugging
		Setting and Getting Text Field data Setting and Getting Text Field data
Constant	IC at a to a second	
Second Grading	If statements	Defining If statements
Period		Multiple If statements
		• Relationals (==, >, < >=, <=, !=)
		If statements with different data types
		If statements within return type functions
		 .count variable
		Nested If statements
	If else if statements	If else if statements
	Switch statements	● Logical Operators (, &, !)
		ASCII values
		Analyzing an ASCII chart
		Switch
	Loops	For loops
	Functions	O Parts
		O Uses
		O In return types
		While loops
		O Vs For loops
		O Uses
		 Loops with if statements
		Break
		Writing functions without parameters
		Writing functions with parameters
		Loops in functions
		 Loops with relationals and compound assignments

Arrays	Building arrays
	 Finding the index
	 Appending
	 Appending multiple values
	 Using .count with Arrays
	More functions with Arrays (.isEmpty, .remove(at:x), .removeLast(),
	.removeAll()