CORNELL NOTES – COMPUTER PROGRAMMING & GAME DESIGN I

	Topic/Objective:	Name:				
	Level 5: Intro to Scrinting	Class/Period:				
		Date:				
Level Objective:						
To understand b	pasic scripting for creation of	games in Unity including understanding				
variables, opera	ntors, conditionals, and array	/S				
Questions:	Notes/Answ	vers/Definitions/Examples/Sentences:				
	Before We Script	▼ 💽 ✓ Hello World (Script) 📓 🎭				
	What are scripts?	Script O				
	Files of code	s that define behaviors for objects				
	Two ways to create a	New Script File:				
	1. Inspector W	indow > Add Component > New Script				
	2. <u>Right Click with mouse > Create > C# Script</u>					
	It's a good idea to create	ate a <u>Scripts</u> folder in the <u>Assets</u> folder of your project				
	In order to properly ru	in the script, it must be <u>attached</u> to a GameObject				
	Click & Drag t	he script onto the GameObject or into the Inspector				
	<u>Window</u>	ul Chudia - > Daubla alialatha Cavint fila in Duaianta				
	• To open Microsoft Vist	$Jai Studio \rightarrow \underline{Double click the Script file in Projects}$				
	Microsoft Visual Studio Ite	ms to Remember				
	Anatomy of a Basic Sc	ript (circle the area where NOT to edit or delete)				
	HeVolcoObunci II A					
	1 - Eusi	ing System.Collections;				
	2 usi	ing System.Collections.Generic;				
	a	ing onregengine,				
	5 - Eput	blic class HelloLosOsos : MonoBehavious				
	6 {					
		vold OnDisable()				
	9	Debug.Log("Hello Los Osos!");				
	10	3				
	11]					
	12					
	All your code will go ir	between the curly braces { }				
	Any code betv	veen curly braces is known as a block				
	You must have the sar	me number of opening curly braces as closing ones				
	Red wavy lines in your set of the set o	our code indicates there is an error that needs attention				
	View the text output 8	errors in your game with Unity's Console window				
	Working with Variables					
	• What are thev? \rightarrow Pla	ceholders for data that can be used later				
	You create with the fo	Illowing syntax: <a>				

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Questions:		Notes/Answers/Definitions/Examples/Sentences:				
	Main t	Main types of Variables we can assign:				
			-			
	int	Short for integer; stores positive and negative numbers				
	float	Stores decimal values; always written with an "f" after them				
	string	Holds entire words or sentences (use double quotations marks) Short for Boolean: stores true or false				
	bool					
	Rules of Naming Variables					
	•	No Spaces				
	camelCasing – writing compound words where each word begins with					
	ortant in coding!)					
	• <u>Makir</u>	ng a Variable Public				
	- •	Allows you to change	V (# Mello World	(Script)		
		values in Inspector	Game Name	Half Life		
	- •	Why do this? \rightarrow	Price	5		
		allows vou to				
	change values easier while testing the game					
	 Variab 	Variables can only be used in the blocks in which they are created				
	- variables can only be used in the blocks in which they are <u>or cureu</u>					
	Working wit	Working with Operators				
	What	are thev? \rightarrow symbols al	lowing you to per	form changes to data		
	Arithm	netic Operators (mathem	atical operations (on operators)		
		iede operators (<u>inderion</u>		<u>perutors</u>)		
	+	+ Adds 2 numbers: also combines strings together				
		Subtraction				
	*	* Multiplication				
	- /	 / Division Modulus; divides but returns the remainder value instead 				
	- %			r value instead		
	Assignment Operators (assigns values to variables)					
				<u> </u>		
		Assigns value				
	- ++	+ Incremental operator (increases a number by 1)				
		Decremental operator (decreases a number by 1)		r by 1)		
	Equality Operators (compares 2 values)					
	• Equality Operators (<u>compares 2 values</u>)					
	==	Returns true only	>= <=	Greater than equal to		
	> <	Greater than; Less tha	n !=	Not equal to		
		· · ·				
	Logica	 Logical Operators (combine two or more Boolean values) 				
		AND Operator; determines if both values are true				
	UR Operators; determines if either of the values is true					
		I INCT Operator; opposite of the Boolean value				