## COMPUTER SCIENCE (CODING/PROGRAMMING/ETC...)

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Grade: 6th - 8th (Middle School)				
Unit Plan: Interactive Game	e Design (Javascript Block Code)			
Pacing: 15/20 Day Plan				
PLC Question: What o	do we want all students to know	and be able to do?		
G	Grade Level Priority Standards:			
<ul> <li>*8.AP.V.01 - The Proficient student: 1) Creates clearly named variables; 2) Creates variables that represent different data types; and 3) Performs operations on the values of variables.</li> </ul>				
Transform data to im expose relationships  *8.AP.M.01 - The Prointo parts for the des  *8.AP.PD.04 - The Prothem easier to follow  *8.IC.SLE.01 - The Property of the property	oficient student decomposes proble sign, implementation, and review o oficient student documents progra	rs and 2) Highlight or ems and sub-problems of programs. ems in order to make eoffs between allowing		
Essential Question:  • Can you create a gan	ne with Javascript Block coding?			
Learning Progression:				
*5.AP.V.01	*8.AP.V.01	*L1.AP.V.01		

**Student Friendly Learning Targets** 

☐ I will correctly ☐ I will correctly ☐ I will correctly ☐ I will correctly ■ I am learning how to ☐ I will correctly	code Javascript for a game: y: create a sprite in my code y: use dot notation for my spr y: add text to my code y: create a sprite in my code code Javascript for a game: y: use the draw loop to anima y: use the counter pattern for	ate my code
<ul> <li>Class Expectations</li> <li>Get Ready for Class</li> <li>Review of Previous Da</li> <li>Learning Target/Succe</li> <li>Introduction to Skill</li> <li>Work on Skill Togethe</li> <li>Student Work on Skill</li> <li>Exit Ticket (Skill Learn</li> <li>Advanced Work</li> </ul> PLC Question: How will versions	ss Criteria r ed)	ve learned the information?
State Required Assessments  N/A	District Essential Assessments  Team Generated Common Formative Assessments (2 to 3 weeks) End of Module/Unit Project.	Supporting Evidence Classroom Assessment and Evidence:

Priority Standard Proficiency Scale		
Score 4	The student will: Create an game with incorporating all score 3 attributes (16/16 and more) and making sounds.	
Score 3	The student will: Create an animated scene with all of the score 2 attributes (16/16):	

	Sprites Score/Lives Game Controls Comments Clean code (no bugs, correct formatting, comments
Score 2	The student will: Create an animated scene with most of the following attributes (13/16):  Sprites  2 Character Sprites  1 Background Sprite  Named Properly  Changed Parameters  Sprite Properties  Score/Lives  Text to show  Counter to add to score/lives  Font Color  Font Size  Align the text  Game Controls  2 ways to move the player  Moving obstacles that loop  Win Screen  Lose Screen  Comments  Clean code (no bugs, correct formatting, comments
Score 1	The student will: Create an animated scene with some of score 2 attributes (12/16 or less):  Teacher assistance
Score 0	No Evidence (Missing Completely)

PLC Question: How will teachers facilitate the learning?

<b>Key</b> Curriculum Resources and Instruc	tional Strategies	<b>Supporting</b> Resources and Instructional Strategies	
• Computer		Digital Tools:	
PLC Question: What will we din	do when student formation?	s have not learned the	
I	nterventions		
Γier 3 ■ Before/After school assistance			

PLC Question: What will we do when students have learned the information?

## **Enrichment**

Investigate building an animated game.

## **PLC** Reflections

How will we increase our instructional competence?

• PD and Online Resources

How will we coordinate our efforts as a collaborative team?

• Work on questioning techniques and organizational strategies.