AP Computer Science Principles

Unit: Game Design

Lesson 1: Analyzing the components of a game

Link: https://snap.berkeley.edu

NYS Standards: 9-12.CT.8 Develop a program that effectively uses control structures in order to create a computer program for practical intent, personal expression, or to address a societal issue.

Learning Intentions:

☐ Understand	that	games	have	goals,	components,	core
mechanics,	space	, rule	es and	d chall	enge	

☐ Identify those aspects in games found on the Snap! website

Do Now: (Answer on classroom) Consider the classic game Rock, Paper, Scissors. Identify the GOAL, CHALLENGE, CORE MECHANICS, COMPONENTS, RULES, and SPACE of this game.

Lesson

Instructions: Visit the <u>Snap Homepage</u> and play two or

three games! As you play, fill in the following

tables.

GAME 1

What is the name of

the game?	
What is the goal or objective of the game?	
What are the components of the game? (How many sprites? What do they do?)	
What are the core mechanics? (What actions does the player take? What actions do non-player characters take?)	
What is the space the game takes place in? (Backgrounds, scenes, mazes)	
What are the rules?	
What makes the game challenging?	

GAME 2

What is the name of the game?	
What is the goal or objective of the game?	
What are the components of the game? (How many sprites? What do they do?)	

What are the core mechanics? (What actions does the player take? What actions do non-player characters take?)	
What is the space the game takes place in? (Backgrounds, scenes, mazes)	
What are the rules?	
What makes the game challenging?	

GAME 3 (if there is time)

What is the name of the game?	
What is the goal or objective of th game?	
What are the components of the game? (How many sprites? What do they do?)	
What are the core mechanics? (What actions does the player take? What actions do non-player characters take?)	
What is the space the	

game takes place in? (Backgrounds, scenes, mazes…)	
What are the rules?	
What makes the game challenging?	