## AP Computer Science Principles

Unit: Game Design

Lesson 3: Jumping Mechanics

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.

9-12.CT.9 Systematically test and refine programs using a range of test cases, based on anticipating common errors and user behavior. 9-12.CT.10 Collaboratively design and develop a program or computational artifact for a specific audience and create documentation outlining implementation features to inform collaborators and users.

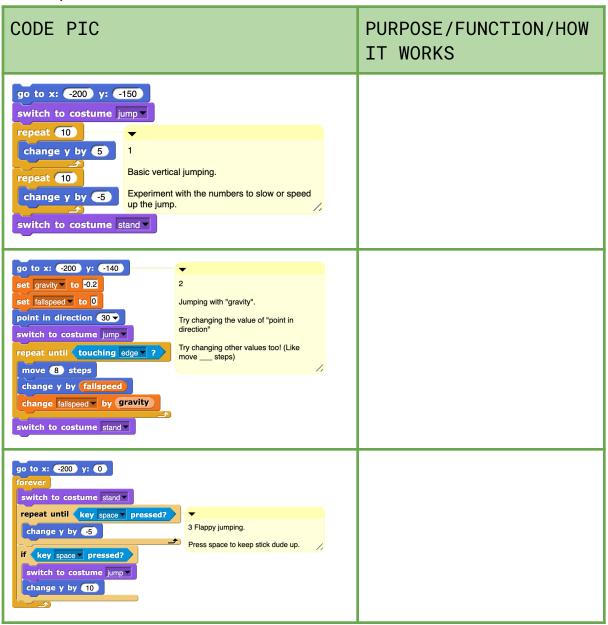
### Learning Intentions:

□ Explain how 3 different "jumping" mechanics	work
□ Incorporate "jumping", sprite interactions,	and
score elements into a <b>very</b> simple game	

#### Instructions:

- 1)Open and save this file with your name in the title <a href="Games--Jumping">Games--Jumping</a>
- 2) Paste a SHARED link to your project here (I will be able to see updates/changes as long as you save them. Please also submit it as a link attachment to this assignment.

3) Explain what is happening with the three different jumping scripts—not just "vertical", "with gravity" or "flappy"...but rather try to explain how the code accomplishes that.



(Add rows as needed)

# 5) Make a very simple game and then TEST AND DEBUG:

Find a classmate to run your very simple game.

Name of	classmate:

Your classmate must suggest 1-2 ways to improve your program. Document the suggestions in the table below. Before making changes, paste a script pic of the code that should be modified. After you make the changes, paste a pic of the improved code.

Suggestion	Old code	New Code

6) Add comments to your code to explain to yourself and anyone else looking at it what the purpose of the script is. (Right click in the black space and choose "comment. You can drag your comment onto the script to attach it).