Name(s)	Period	Date

## Project Guide - Flyer Game

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## **Overview**

In this project, you'll use what you have learned to make a flyer game. There's a sample flyer game in Code Studio.

Before you jump into programming your scene, you need to plan! Let's use our handy Problem-Solving Process to help us! You can refer back to the <u>Problem Solving Process and Programming handout</u> to help you with the steps!

## **Define**

Play the sample game a few times. You can make your game just like this one, or change it to fit your preferences. Fill out the chart below with what you want to keep the same about each of the requirements listed and what you want to change about the requirements.

Requirements	Example Game	Things to Keep the Same	Things to Change
At least 4 sprites	Flyer (player), coin (target), rocks (obstacles)		
Player controls	Up key to fly up, floating left and right with left and right keys. Player falls when not pressing anything		
Other sprite controls	Obstacles loop across the screen. Target moves to a random location.		
Sprite interactions	Target moves to a random location. Obstacles push player.		
Other Features			

Prepare						
What parts	of programming	this game	are you no	of sure how	ob ot v	vet?

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**Sprites:** You need at least 4 sprites. The sample game has the player (flybot), two obstacles (rocks) and the target (coin). If you plan on using different sprites, fill out the chart below with what you want to use for your player, obstacle, and target, and where you will find the images.

Sprite	Sample	Your Choice	Image/Animation Source
Player	flybot		
Obstacle (2)	rocks		
Target	coin		

<u>Background</u>	<u>l:</u> Wha	t do you want	the b	ackground to	look like? Drav	a picture, and describe the shapes you will use to
make it.		-				
-	rols:	ill in the chart	belo	w to plan how	you are going t	o use conditionals to control your player sprite's
Condition (	examp	ole: up key)	Α	ction (examp	ole: move player	sprite up the screen)
			+			
			_			
Other Sprite	Cont	rols: Fill in the	cha	rt below to pla	n how the other	sprites are going to move and how you are going
to use condit	ionals	to control you	r spri	tes' movemer	nt.	
Sprites		Movement		Condition (example: x < 0)		Action (example: reset x to right side of screen)
Obstacles						
Target						
			art b	elow to plan h		sprites are going to interact with each other.
Sprite	Inter	actions			Result	
Player						
Obstacles	cles					
Target						
<b>Variables:</b> Fi	ill in th	e chart below	with	any variables	you plan to use	during the game.
		Des	scription			

Try

Once your teacher has approved your design, go to Code Studio to create your game.

Check your program to make sure it has everything it needs.

## Reflect

Answer at least three of the reflection questions below:

- 1. Compare your program to the defined problem ... Were you successful in solving all aspects of the problem? How do you know?
- 2. Ask a classmate to try your program ... Are there places where they struggle or show confusion?
- 3. Ask a classmate to read your code ... Is your code and documentation clear and accurate?
- 4. Try to "break" your program ... Did you find types of interaction or input that you could handle better?
- 5. Are there any changes or improvements you can make to this program or another like it in the future?