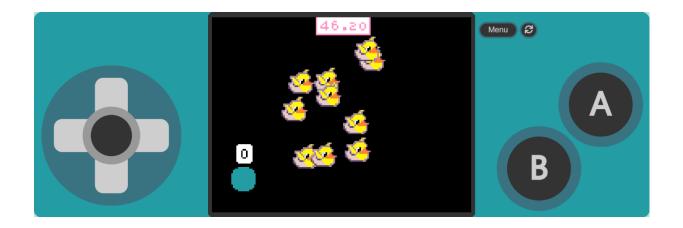






## THIRD LOGIC TASK



#### DESCRIPTION

To create a Duck Hunt-style game where elements randomly appear on the screen and the player has to catch them with a ball.

In order to do that we go to MakeCode Arcade and do the following operations

#### Goals

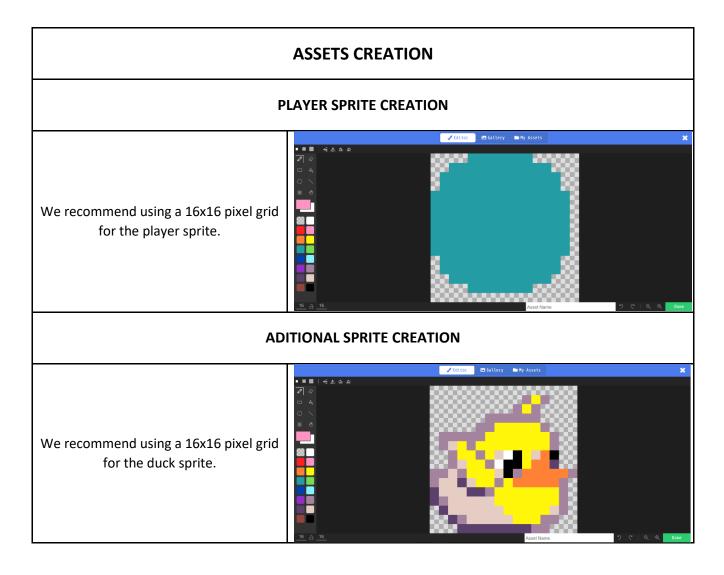
- Work with game logic using controls in MakeCode Arcade.
- Work with and understanding variables in MakeCode Arcade.
- Assign an angle based on the duration of a key press.







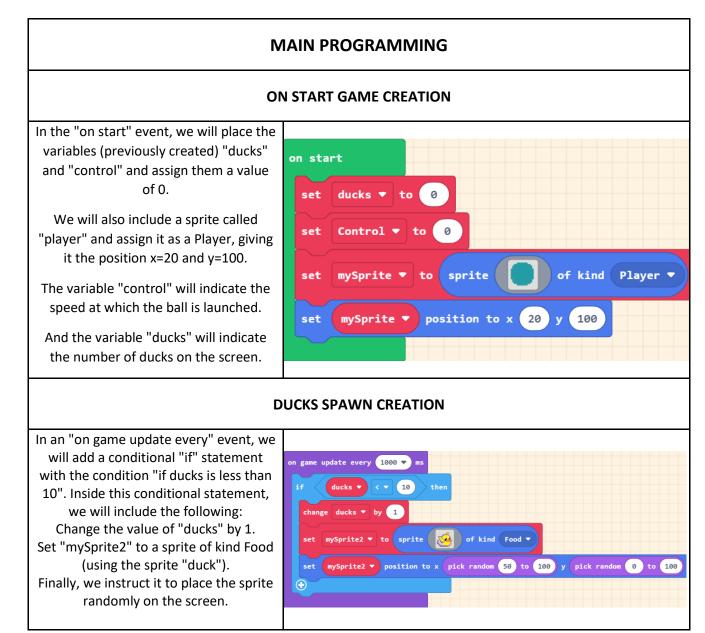
### Game programming







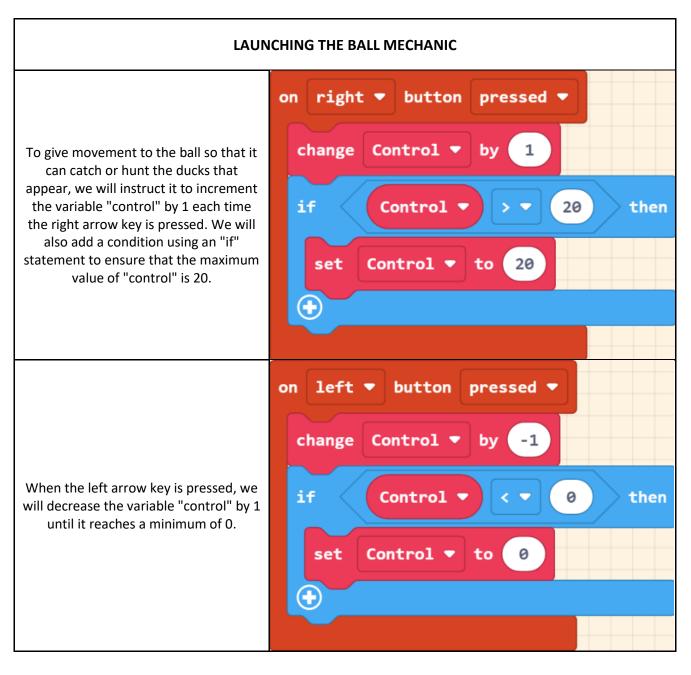










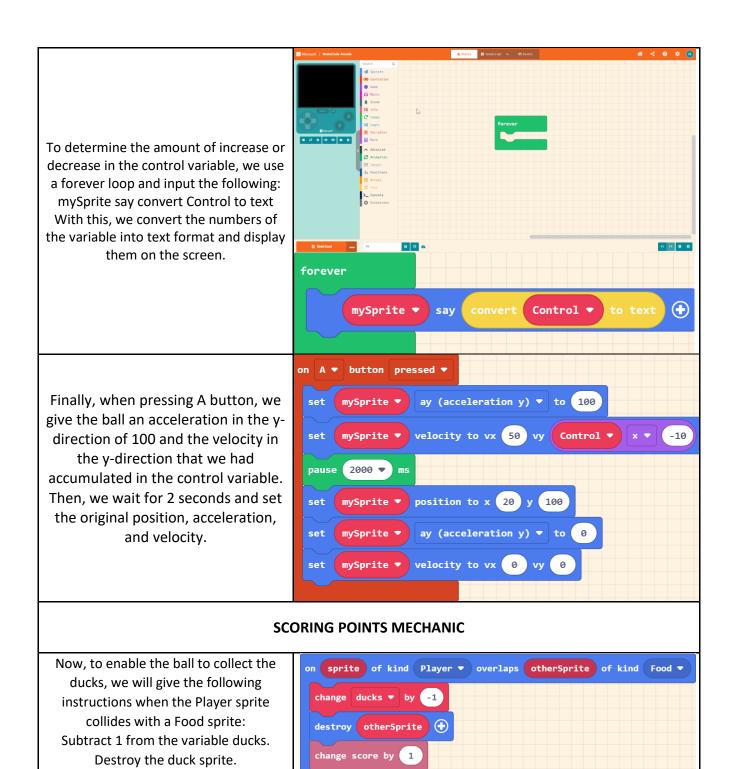


# DIGIM 🛱 RKEŢ SPR@JECT 🛈

Add 1 to the score.













GAME OVER MECHANIC	
	on start
To prevent the game from becoming endless and add an incentive for improvement, we will introduce a start countdown in the "on start" event and set it to 60. This way, when the time runs out, the final score will be displayed, and players will be challenged to beat it.	set ducks 🔻 to 0
	set Control 🔻 to 0
	set mySprite 🔻 to sprite 🚺 of kind Player 🕶
	set mySprite - position to x 20 y 100
	start countdown 60 (s)

With this programming, the ducks will appear randomly on the screen, and we will have to use the ball to collect as many as we can within one minute. We have learned how to increase the number of elements on the screen and also how to give our throw more value to make it reach higher.

Now, it's your turn to customize and add content. Here's the description you provided for inspiration:

https://makecode.com/ 3kg7webwHats





## Glossary

Loops: A sequence of code that is executed repeatedly.

Conditionals: A sequence of instructions that are executed based on the value of a condition.

Comparison operators: Operators that compare one value to another and are used within a condition.

Variables: It is a space associated with an identifier, where a value can be stored and modified.

Event: Executes a sequence of instructions when an external event occurs in the system.

If: A conditional statement that executes a sequence of instructions or skips them based on the result of a logical operation.

physic: In video games, physics refers to the behaviour of different elements within an environment. They often simulate real-world physics.

Acceleration: The change in velocity per unit of time.

Velocity: A physical quantity that relates position to the rate of change of time.

Vectors: A line segment in a space representing a physical or mathematical quantity.

Life cycle: The duration of an element in a program from its creation to its destruction.

Aleatory: The generation of numbers that have an equal probability of occurring.

Score: The total points obtained by a player through certain interactions.

Countdown: A set amount of time that counts down and triggers something to happen, such as ending the game.

Game Over: The game has ended. It usually displays scores and asks if you want to play another game.