

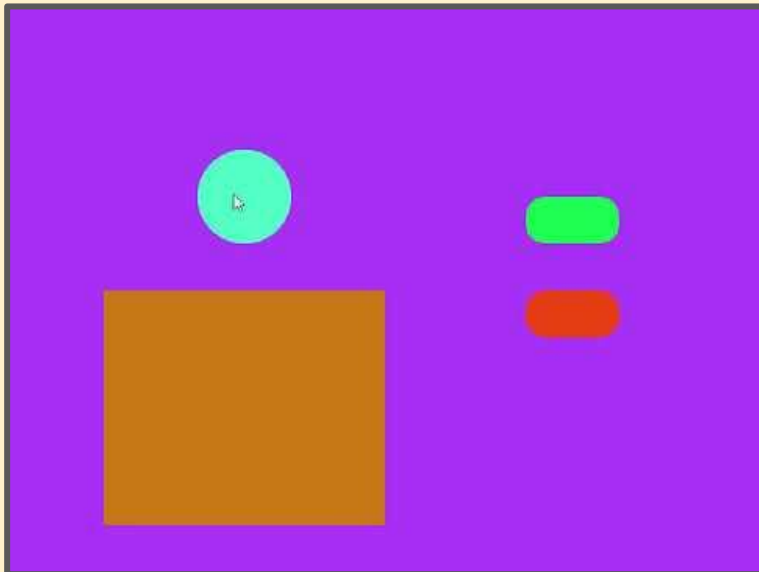


Grade 5 - Unit 1 - Assessment

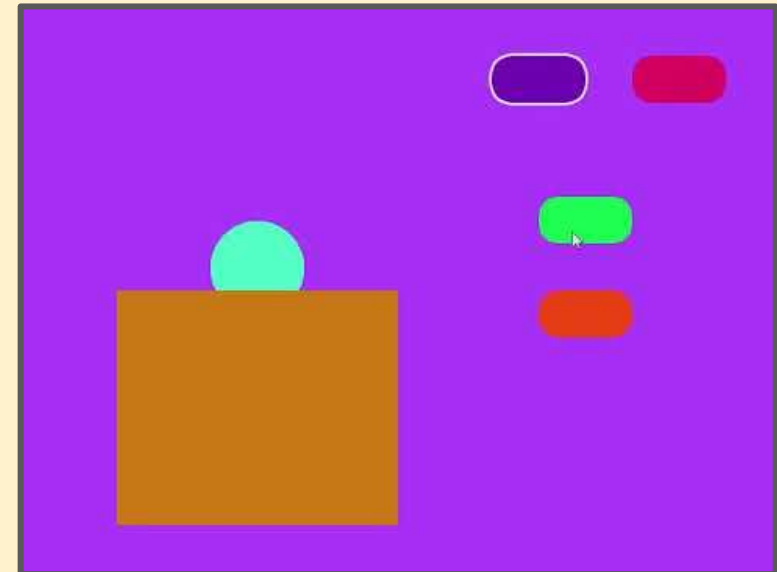
You are required to recreate the project on the left. If, **AND ONLY IF**, you **complete** that, you are to try and upgrade that project to the **advanced project**.

Instructions are on the next page

Basic Project



Advanced Project





Grade 5 - Unit 1 - Instructions

Basic Project

1. Draw the **box** with a **circle hidden behind it**
2. You have **2 buttons** and **2 booleans** (1 boolean to make it move up, 1 boolean to make it move down)
 - a. When you **press the first button** the **ball** starts to **move up** (you should only need to press the button **1 time** and it should keep moving up)
 - b. When you press the **second button** the **ball** starts to **move back down**
3. **When the circle reaches a certain height above the box** (you can decide the specific value) the ball should **stop moving**, the ball should also stop moving when it reaches the **bottom of the box** (the ball shouldn't be able to go below the box)

Advanced Project

1. Add **two additional buttons** that **controls** the **color scheme** of the project (**background, object colors**)
2. You should give a visual signal of which button is selected. (the selected box should have a white outline to inform you it is the one that is selected)



Grade 5 - Unit 1 - Marking Scheme

Below you will find the marks breakdown for the assessment

Marking Criteria

<u>Marks</u>	<u>Description</u>
10	<i>Create the base of the project (all the shapes, colors, background)</i>
10	<i>Create and initialise booleans</i>
10	<i>Have the booleans changing correctly when pressed</i>
10	<i>Have the booleans affect the circle (they move correctly) (5 each)</i>
20	<i>Have the circle stop moving when they reach certain distances (10 each)</i>
10	<i>Adding in the additional booleans for the extra buttons (5 each)</i>
10	<i>Have the additional booleans changing correctly (5 each)</i>
10	<i>Have the buttons affecting the color scheme</i>
5	<i>Highlighting the selected button</i>
5	<i>Creativity (visual aids, complex button designs etc)</i>
100	TOTAL