4: Line Following - Creating the Solution

Discuss and answer the following questions in your learning journal. Give the game a go to try and figure out some of these answers.

1. List the sensing blocks that your robot will need to use to follow a line.

2. For each of these blocks, what do they measure?
3. For each of these blocks, what type of sensor would be required to get this information?
4. List the action blocks that your robot will need to use to follow a line.

5. For each of these blocks, what action do they make our robot do? If the block has an input, how does this input change the resulting action?

6. What actuators would be required to perform this action?

For each of the sensors in question 3 and actuators in question 6, answer the following questions in your learning journal:

1. What does this sensor/actuator do?

2. List 3 examples of where we could use this in our situation?

3. Can you explain how it works? If possible, you might want to draw a diagram to aid your explanation. You could also include mathematical equations to help explain your answer.