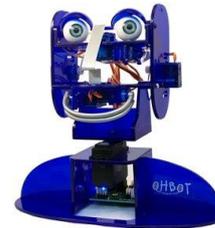


# Year 6 - Lesson 1: Oh Puppet

## Learning Intention

- I can program a robot to sense the position of a mouse to set its position



## Introduction

This will be our final unit of work on Robotics. What projects did you cover in Year 5? We will start Year 6 with another movement project. What ways have we learnt to make Ohbot move? (Simple movements, using the keyboard and simultaneous movements all in Year 3. In Year 4 we looked at Random movements. In Year 5 Ohbot moved in response to questions and answers.) In Year 6 we are going to start with “Wizard of Oz” robotics. This is where a human is used to simulate the response of the robot, like the film Wizard of Oz, when the wizard was operating the robot from behind a curtain. (Show film clip)

## Teacher Input

We are going to make Ohbot move like a puppet. We will do this by getting Ohbot to react to a *sensor*. The *Mouse X sensor block* (In the light blue Sensor menu) gives the position of the mouse in the x axis as a number between 0 and 10. The *Mouse Y block* does the same for the Y axis. We will start with the very simplest puppet movement. Using the mouse to control turning the head from side to side.



## Activity

- Can you write a program that allows the mouse to control Ohbot’s head turn and head nod motors?
- Can you add code to your program so that the mouse controls Ohbots eye turn and eye tilt motors too?
- Can you experiment with using the mouse and other sensor blocks to control Ohbot’s mouth?

## Extension

Encourage the children to think about controlling Ohbot as a robot puppet. Can they script a performance in which Ohbot speaks and moves?

## Plenary

Take a look at the children’s own projects. How did you use the “Wizard of Oz” control? Were you able to successfully write the code to achieve your idea?

