Year 3 - Lesson 4 (Multitasking)

Learning Intention

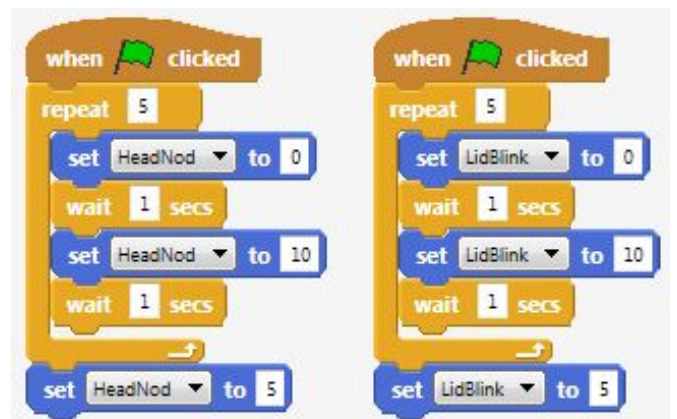- I can program a robot to move using a range of instructions.

Introduction

What did we learn to do in the last lesson? (Use repeat). This week we will use repeat again. In addition, we will see that Ohbot can do two things at the same time!

We will learn to write two **scripts** that will run at the same time in the same program so that Ohbot can perform two tasks simultaneously. What do you think the word simultaneously means? Ask children to stand up. Can they nod their head and clap their hands at the same time? They are performing two tasks simultaneously! What other moves can they perform simultaneously? What moves could Ohbot perform simultaneously?

Teacher Input 1

Ask the children to open the Ohbot program on their computer and go to *New* on the *File* menu to create a blank program. Explain that we can have two sequences of code in one program similar to when we used the keyboard to control Ohbot. However, both sequences will start with **when green flag clicked** and work simultaneously. Drag two, *when green flag clicked* instructions, into the new file. Explain that you can write a sequence of code below both instruction. Children work through the tasks on the slides.
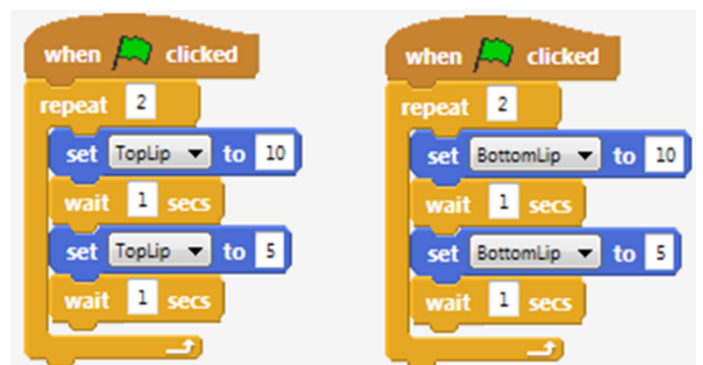
Activity

1. Can you write some code to make Ohbot's head nod five times while Ohbot also blinks five times?
2. Can you write some code to make Ohbot's head turn left and right ten times while Ohbot also turns his eyes left and right ten times?
3. Can you write some code to make Ohbot yawn twice?

Extension

Can you write your own program in which Ohbot performs three moves simultaneously!

Plenary

How did you find today's lesson? (Thumbs up, down, middle). Who successfully programmed Ohbot to perform two tasks simultaneously? Did anyone complete the extension? Which three tasks work well together?