

# Knowledge Organiser - Moving Robots (Year 1 & 2)

## Moving a Robot

**Robots** are a type of technology that can follow **programs**. A program is when we make a set of instructions for a computer to follow.

**Floor Robots** have buttons which can be pressed to tell (**command**) the robot which way to go (**direction**). These robots are called **Bee-Bots**.

**Algorithms** (a set of instructions) are used to program the floor robot along a **route**.

## Floor Robots

Bee-Bots are a type of floor robot. They can be programmed to move around.



Bee-Bots have to have a charged battery. To turn it on, there is a switch



underneath. When it turns on the Bee-Bot's eyes will light up. Remember to turn it off.

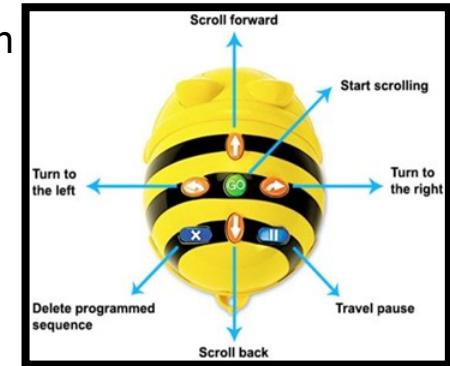
## Using a Bee-bot

Bee-Bots have buttons on the top. These buttons are used to make the Bee-Bot move.

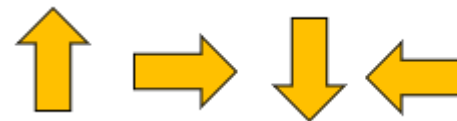
The arrows move the Bee-Bot in different directions.

The GO button makes the Bee-Bot start the program.

The X button makes the Bee-Bot forget the last set of instructions.



The Bee-Bot can be programmed using an **algorithm** so that it follows a route. The algorithm needs to be in the correct **sequence** (order).



The commands are left, right, forwards or backwards.

When the button is pressed it is one move. The algorithm might need **debugging** (fix the errors) if a mistake is made.