

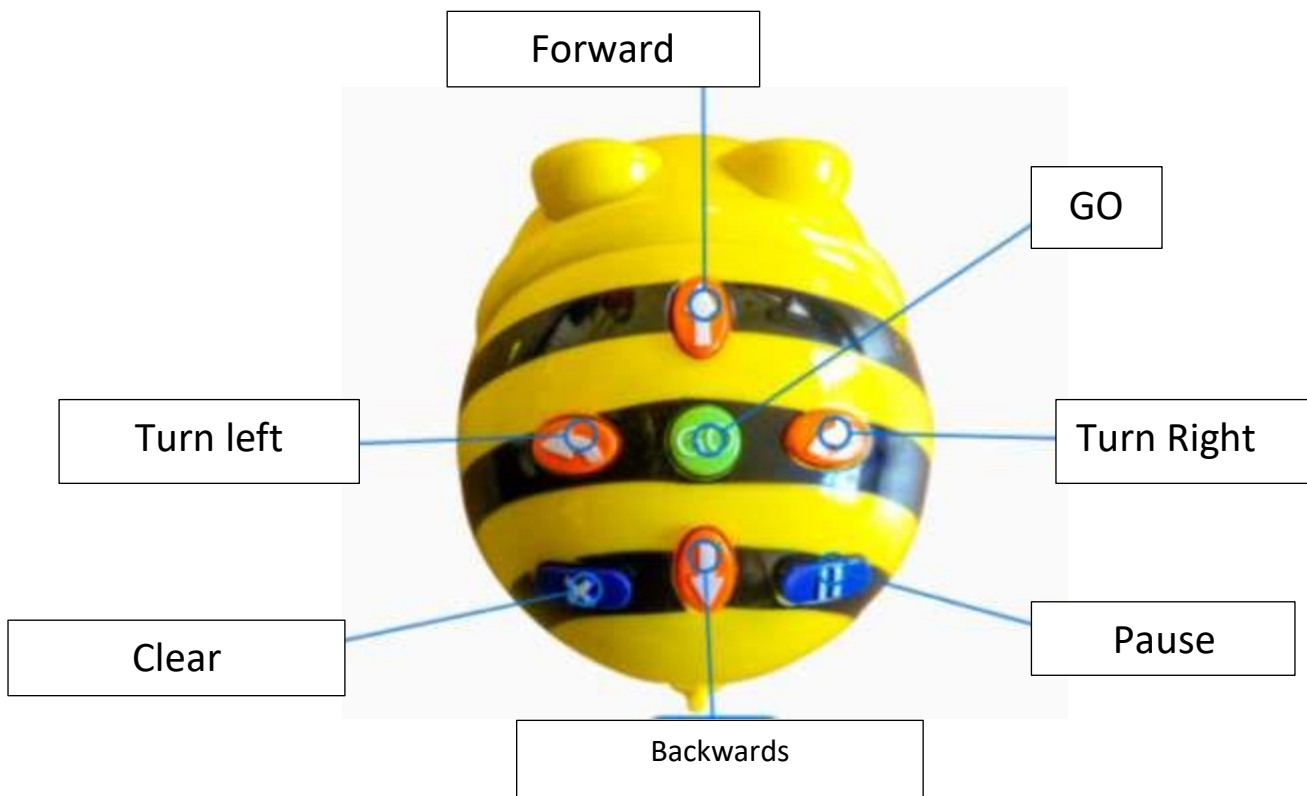
Computing

Coding

Year 1 – Important Information

Bee-Bots are robots. They are called Bee-Bots because they look like bees. They travel along the floor. We can program them to go forward and backward and to turn left and right. This is the top of a Bee-Bot.

This is what it looks like underneath:



The Bee-Bot moves forward and back, one step at a time. One step is the length of its body (15 cm).

The Bee-Bot turns left and right

Always press the clear button before you programme the Bee-Bot.

Programme the Bee-Bot by pressing the buttons in the order you want the Bee-Bot to move.

Press go.

When the Bee-Bot has finished moving, it stops and plays a sound.

Bee-Bots are rechargeable. This means that we can plug them in after we have used them to charge up their batteries.

If your Bee-Bot is not used for 2 minutes it will play a sound and go to sleep.

You can wake it up again by pressing any button. It will play a sound and flash its eyes.

### **Crucial Knowledge**

instructions – written for someone who needs to know how to do something.

program - set of instructions completed in order to achieve a task on a computer or toy

programmable toy – a toy we can put instructions into


debug – find and fix a problem in a program


once – do it one time

twice – do it two times

Left - 

Right 

Forward 

Backward 

Battery stores energy until it is needed to make an object work

Clear to start again

Recharging – putting new energy into the battery

### **Outcome**

Explain what each button does on the Bee-Bot

Explain how to look after a Bee-Bot, including recharging it

Treat the Bee-Bots with respect

Program in a route given to you by your teacher

Using squares, design a world for a Bee-Bot and it to reach different places in your world Use symbols (and words) to record the route the Bee-Bot took

Use symbol cards to plan a route and program this into a Bee-Bot

Debug your program if it goes wrong

Keep on trying

### **Activities**

Play with the Bee-Bots if you haven't seen them before Design a hat or some wings for the Bee-Bot  
Introduction to Bee-Bots

<https://www.youtube.com/watch?v=52ZuenJFyE>

Bee-Bots basics (SEND resource)

<https://www.barefootcomputing.org/resources/send-bee-bot-basics-activity>

Record a video to explain to reception children how to look after and program the Bee-Bots.

Design a Bee-Bot world on a large square grid Debugging introduction

[https://www.youtube.com/watch?time\\_continue=1&v=CGPjraqX\\_ac](https://www.youtube.com/watch?time_continue=1&v=CGPjraqX_ac)

Beebot challenge cards

<http://ccc-computing.org.uk/misc/download/zyr5Y9Cgt9e7C9fE>

Beebots programming (challenging – end of year extension)

<https://www.barefootcomputing.org/resources/bee-bots-1-2-3-programming>