

## **Curriculum links:**

- Understand what algorithms are and how they are implemented as programs on digital devices and the programs execute by following precise and unambiguous instructions.
- Create and debug simple programs.
- Use logical reasoning to predict the behaviour of simple programs.

## Key Knowledge:

- Create a simple program on a digital device e.g. Bee Bot, iPad, Sphero
- Understand how to sequence in programs.
- Understand that programs follow precise instructions (algorithms).
- Locate and fix bugs in my program.
- Know how to debug programs of increasing complexity.
- Use logical reasoning to predict the outcome of simple programs.

### Possible programs/ websites:

- Scratch Jr
- Bee Bot
- Bee Bot app
- Sphero indi
- Sphero Edu Jr

#### We should already know:

- Direction arrows can move an on screen object.
- A sequence is simple instructions to make something work.
- Finding an error in code is called debugging.



# Key Vocabulary:

Algorithm	Place a sequence of instructions in the correct order to make something work, such as programming a washing ma-
Debug	If the program does not work, can we find the error and correct it.
Execute	Run the program to see if it works.
Program	A set of instructions that makes some- thing happen.
Sequence	Place instructions one after the other in the correct order, such as the sequence
Tinker	To play around and explore hardware to see how it works.