What I should already know: Use small motor skills so that they can use a range of tools competently, safely and confidently. Explored BeeBot, moving it using one step instructions. Able to follow instructions and give clear instructions.

## **Enquiry Questions**

- \*To understand what an algorithm is.
- \*To follow instructions precisely to carry out an action.
- \*To understand that computers and devices around us use inputs and outputs.
- \*To understand and be able to explain what decomposition is.
- \*To know how to debug an algorithm.

## Key Vocabulary

Algorithm - a clear set of instructions to carry out a task Bug - An error or a mistake in computer code

Computer - Electronic machine that accepts and processes information to produce an output, and then stores the results

**Debug** - To fix the error in code.

**Decompose** - To break something down into smaller chunks. **Device** - Equipment created for a certain purpose or job. **Input** - A way of telling the computer what you want it to do

**Instructions** - A list of commands and directions on how to do something.

Output - Information or data that is sent by the computer to an output device such as a printer or speakers.

Solution - The methods to solve a problem.

## Key Skills (National Curriculum)

## Pupils should be taught to

- Understand what algorithms are: how they are implemented as programs on digital devices: and that programs execute by following precise and unambiguous instructions
- Create and debug simple programs
- Use logical reasoning to predict the behaviour of simple programs
- Use technology purposefully to create, organise, store, manipulate and retrieve digital content
- Recognise common uses of information technology beyond school
- Use technology purposefully to create, organise, store, manipulate, and retrieve digital content

