

COMPUTING

Algorithms - Year 1

What is an algorithm (programme)?

I know that an algorithm is a clear set of instructions to carry out a task

Here's an algorithm for brushing your teeth:

1. Get your toothbrush
2. Add some toothpaste
3. Brush your top teeth
4. Brush your bottom teeth
5. Rinse your mouth
6. Smile!



There's a problem with this algorithm!

Can you spot it?

1. Get your toothbrush
2. Rinse your mouth
3. Brush your teeth

Key Vocabulary

Algorithm – A clear set of instructions to carry out a task.

Bug – An error or mistake.

Debug – Finding and fixing mistakes (bugs) in the instructions/algorithm.

Program – A sequence of instructions written to perform a task.

Chronological Order – The order in which something has happened or is done.

Input – A way of telling the computer what you want it to do

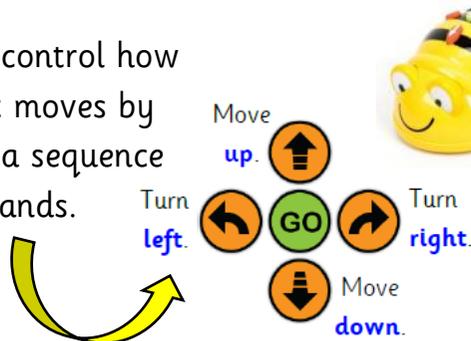
Output – Information or data that is sent by the computer to an output device such as a printer or speakers.

Solution – The method to solve a problem.

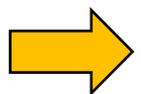
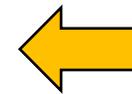
Beebots

I know that Beebots are designed to move in specific directions. These directions are programmed in using the buttons in a sequence.

You can control how a Beebot moves by giving it a sequence of commands.



1. Press the X to clear any previous instructions.
2. Input your commands.
3. Press GO.



Forwards Backwards Left Right