

# St George's Central CE Primary School and Nursery

## Year 1/2 - Computing – How do I get out of the maze?

What will we learn:

- The functionality of the directional keys on the keyboard
- How to create a set of instructions for the computer to follow ( algorithm)
- How to fix (debug) a set of instructions ( algorithm)
- To use directional keys as part of an algorithm.

### Prior Learning

In Reception I learnt how to:

- Use the keyboard arrow keys to play games
- Type different things onto the computer
- To drag and drop objects using the mouse

### Future Learning in Year 3/4

To debug more complex algorithms

To use flowcharts to design an algorithm

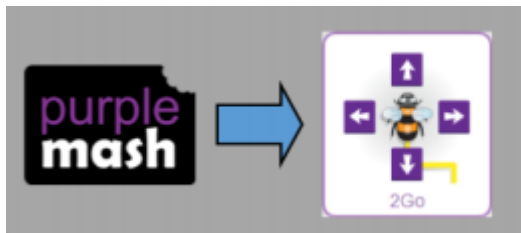
To use the if button in an algorithm

To use variables when coding

### Vocabulary

|             |   |
|-------------|---|
| Direction   | A course along which someone or something moves.  |
| Challenge   | A task or situation that tests someone's abilities.   |
| Arrow       | A mark or sign resembling an arrow, used to show direction or position.                     |
| Rewind      | Move back several steps or to the start   |
| Undo        | Cancel or reverse the instruction.  |
| Forwards    | To move in the direction that one is facing or travelling.                                  |
| Backwards   | To move in the opposite direction to which one is facing.                                   |
| Right Turn  | To move the object in a clockwise direction   |
| Left Turn   | To move the object in an anticlockwise direction  |
| Debug       | To find and remove errors from computer hardware or software                                |
| Instruction | Information about how something should be done  |
| Algorithm   | A precise, step-by-step set of instructions used to solve a problem or achieve an objective |

### Resources that are going to help me achieve my learning.



### Fun Facts:

- Algorithms are all around us. We use them every day. Every time you give an instruction you are using an algorithm
- 1000s of algorithms go into playing your favourite computer game.
- When you bake and follow a recipe you are following an algorithm, if something goes wrong you debug it to try and fix the problem.
- Without algorithms on the computer we would not have any computer games to play, now wouldn't that be boring.

**'Never settle for less than your best'**

*Jesus said, 'I am the light of the world. Whoever follows Me will not walk in darkness, but will have the light of life.' John 8:12*

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