

COMPUTING: PROGRAMMING- Events and Actions

What should I already Know?

- I understand directional language North, South, East, West, Forward, backwards, 90 degrees, 180 degrees etc.
- I can plan a set of commands for a Beebot and predict the intended outcome.
- I can programme a Beebot using more than 4 commands and test my prediction

The Basics of Scratch

- <u>Programming</u> is when we make a set of instructions for computers to follow.
- -<u>Scratch</u> is a program that we can use in order to code our own stories and animations.
- -We use <u>algorithms</u> (a set of instructions to perform a task) to sequence movements, actions and sounds.



Adding/Removing Sprites:

There are many sprites to choose from.



- The sprite is the character.



Attributes: We can change our animation: Code, Costumes, Sounds.

Backdrops: Backdrops can be added





Important Vocabulary

Resize

Extension block Debug

Sprites Sequence Programme Test

Algorithm



Event Blocks:

Event blocks are coloured yellow and

are used to sense different events that

happen.

-Action Blocks:

They make the sprite move, make

sounds and change appearance.



Sequencing and Algorithms

-A sequence is a pattern or process in which one thing follows another. In Scratch, blocks can stack vertically on top of one another to create sequences.

-Designing an algorithm (set of instructions for performing a task) will help you to program the sequence that you require.



-Programming is when we move the blocks into the position (based on our algorithm design). Programming uses a code that the computer can understand.