



Word Aware

Anchor:

Stage
Go to
Task
Order

Goldilocks:

Programming
Scratch
Blocks
Costume
Event
Note
Bug

Step On:

Code
Sprite
Backdrop
Motion
Point in direction
Chord
Run the code

Previous knowledge

Know how to sequence on Scratch.
Know to do delete blocks.
Know how to repeat blocks.
To know the basics of programming.

Computing Knowledge Organiser Year 3: Programming A: Sequencing Sounds

Sequencing in Scratch

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



Key Knowledge – What I need to know

The Basics of Scratch

What is Scratch? Scratch is a website/ app that lets us code our own stories, games and animations. Scratch helps us to learn how to use programming language, whilst also being creative and using problem-solving skills.

There are three main areas in Scratch:

The Blocks Palette contain all of the different blocks: puzzle piece commands which control the animation. **Code Area** is where the blocks are placed to create a program. **Stage with Sprite** is where the output of the program is presented. **The sprite** is the character.

Adding/Removing Sprites: This can be done here, at the bottom of the stage. There are many sprites to choose from.

Attributes: There are three attributes of the sprite which we can change to make our animation: Code, Costumes, Sounds.

Backdrops: Backdrops can be added by clicking on this icon (bottom right of the screen, below the stage).

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. **Event blocks** are used to start sequences. They are orange and have a curved shape at the top. Designing an algorithm (set of instructions for performing a task) will help you to program the sequence that you require.

Making Music

Several sprites, each following connected sound sequences, can create music! In order to do this, you will need to carefully plan your algorithm. If your animation does not work correctly the first

Programming Using Blocks

Basic Programming: Make sure that the feature of the stage that you want to program (e.g. sprite, background) is selected by clicking on it. Drag the block command that you want onto the code area. Blocks can be deleted by right-clicking on the block and selecting 'delete block.'



Block Editing: White areas on blocks can be edited. Click on them and type in the preferred value.

Running the Code: You can run your animation by performing the action stated in the event block (e.g. clicking the event block). If this does not work, you may need to debug your animation (find errors and fix them).