

Year 2: Computing

Summer Term 1



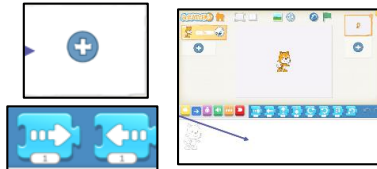
Coding



Key Vocabulary

Command	Giving an order
Outcome	The end result
Predict	Estimate that a specified thing will happen in the future or will be a consequence of something
Sprite	Graphic object - character
Algorithm	A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer
Build	Construct by putting parts or material together
Evaluate	Looking at the positives and negatives and how they can improve

- The + starts a new project.
- These are programming blocks. We drag them into the programming area. Clicking the block in the area makes the sprite perform on the stage.



Moving Blocks: These make the Sprite move in different ways.

Background: Backgrounds are added by clicking this icon (right).

Start Blocks: Start blocks are yellow. These are used to start/ run programs.

End Blocks: End blocks are red. These show what happens at the end of your program.

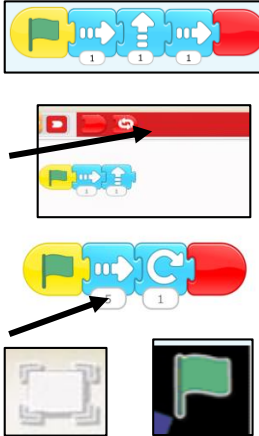
Sequencing

Sequences: A sequence is a pattern or process in which one thing follows another. In Scratch Jr. we can stack blocks together side by side in order to create programs made up of sequences.

Deleting Blocks: Blocks can be removed from programs by dragging them from the programming area back into the blocks palette.

Repeating Blocks: For something to happen more than once, we can change the number underneath the block.

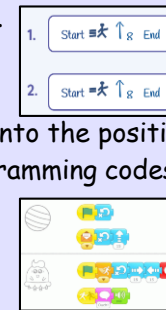
Running the Code: Run your animation by tapping the full



Algorithms and Programming

An **algorithm** is a set of instructions for performing a task. Designing an algorithm can help us to make the sprite do the things that we want it to do.

Programming is when we move the blocks into the position (based on our algorithm design). Our programming codes the sprite to perform the actions.



Debugging

Sometimes, things don't work exactly how we want them to the first time. This may be a problem with our algorithm, or we could have made a mistake in our programming.

If the animation does not work correctly the first time, remember to debug it. This means finding and fixing the problems.



Research more:

<https://scratch.mit.edu/>

Read more:

Lift-the-flap Computers and Coding by Usborne
Coding for Beginners Using Scratch By Usborne

