

What we will learn

Sequencing



Animations in Scratch Jr.

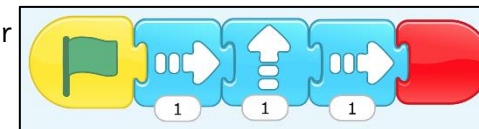
Programming is when we make a set of instructions for computers to follow.

Scratch jr. is an app that we can use in order to code our own stories and animations. It involves **sprites** (characters on the screen).



We use **algorithms** (a set of instructions to perform a task) to program the sprite to do different things.

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 screen icon, and then the **green flag**.



E-safety

Be safe online



The basics of Scratch Jr.

What is Scratch Jr? Scratch is a website/ app that lets us code our own stories, games and animations.

Sprites: Scratch Jr. uses characters called sprites. The main sprite is a cat called Scratch.

Home: Clicking on the house takes you 'home' to your project screen.

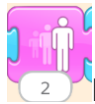


Getting started

The + (right) starts a new project.



These (right) are the **programming blocks**. We drag them into the programming area (right).



Makes the sprite **grow**



Makes the sprite shrink

Clicking the block in the area makes the sprite perform on the **stage**.



Background:

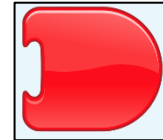
Backgrounds are added by clicking this icon (right).



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.



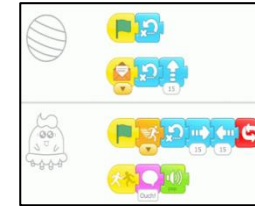
Algorithms and programming

An **algorithm** is a set of instructions for performing a task.

1. Start → ↑ g End
2. Start → ↑ g End

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.

