

## Animations in Scratch Jr.

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- <u>Programming</u> is when we make a set of instructions for computers to follow.

 <u>Scratch jr.</u> is a program 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.

The Basics of Scratch Jr.			-Running the full screen icon
-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.		Algorithr	
Getting Started - <u>The + (right)</u> starts a new project. -These (right) are the programming blocks. We drag them into the programming area (right). Clicking the block in the area makes the sprite perform on the <u>stage</u> .	-Background: Background added by clicking this icon -Start Blocks: Start block yellow. These are used to run programs. -End Blocks: End blocks of red. These show what hap at the end of your program	n (right).	instructions for performing a ta Designing an a can help us to n sprite do the th <b>-Programmin</b> we move the b the position (ba our algorithm of Our programm the sprite to pe

-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.

Algorithms and Programming	Debugging	
-An <b>algorithm</b> 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.	-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.	
-Programming is when we move the blocks into the position (based on our algorithm design). Our programming codes the sprite to perform the actions.	-If the animation does not work correctly the first time, remember to <b>debug</b> it. This means finding and fixing the problems.	

## Important Vocabulary Programming Scratch Jr. Sprite Home Command Block Stage Background Algorithm App