



St John Vianney Year 1 – Scratch Programming – Summer 2



Overview




Animations in Scratch Jr.

- **Programming** is when we make a set of instructions for computers to follow.
- **Scratch Jr.** 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.

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.

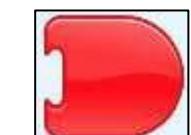
Getting Started

- The + (right) starts a new project. 

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

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.

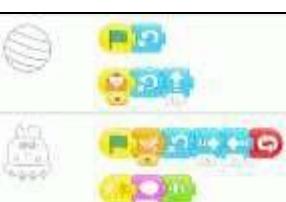


-Repeating Blocks: For something to happen more than once, we can change the number underneath the block.



-Running the Code: Run your animation by tapping the full screen icon, and then the green flag.




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

Important Vocabulary

Programming

Scratch Jr.

Sprite

Home

Command

Block

Stage

Background

Algorithm

App