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# COMPUTING: PROGRAMMING- Introduction to Quizzes

Quizzes in Scratch Jr.

- Programming is when we make a set of instructions for

computers to follow.

-Scratch ir. is a program that we can use to code

programs using a series of command blocks. This can be

used to design guizzes.

-We use algorithms (a set of instructions to perform a

task) to program the sprite to do different things.

### **Creating Quizzes**

-Outcomes: An outcome is something that happens as a result of us doing something. E.g. in cookery, we can mix and cook ingredients to make an outcome of food! In Scratch Jr. a sequence of commands is followed and this results in an outcome.

-Quizzes in Scratch: We can create simple guizzes in Scratch jr. where the user can select an answer by clicking on a sprite. An outcome occurs when the sprite is clicked.

-Adding and Programming Sprites: We need multiple sprites for the user to select from. To add new sprites, we choose the + option (see right). We can program multiple sprites. The sprite we are programming is the picture in the programming area.

-Programming Sequences: Consider what question to ask your users, e.g. Who lives here? Program each sprite with a command sequence, so that they know if they are right or not when clicking on the sprite.



The Basics of Scratch Jr. -What is Scratch Jr? Scratch is a website/ app that lets us code our .0. own stories, games and animations. -Sprites: Scratch Jr. uses characters called sprites. The main sprite is a

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

Overview

-These (right) are the

cat called Scratch.

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). -Running the Code: Run your

animation by tapping the full screen icon, and then the green flag.



-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 sequences. We can change the number at the bottom of some blocks to alter distance or size.



-Start Blocks: Start blocks are vellow & are used to

start/ run programs. The second block on

the right starts the program when



-End Blocks: End blocks are red. These are used to end your program.

Important Vocabulary

performing a task. Designing an algorithm can help us to make the guiz work in the way that we want it to.

understand. In Scratch jr. this makes our guiz animation do the things we want it to.

Start Outcome Predict Blocks Actions Change Build Match Compare Evaluate



## **KNOWLEDGE ORGANISE**

#### 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.







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