

Year: 2  
 Term: Summer 1  
 Topic: Programming - Programming Quizzes



**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.



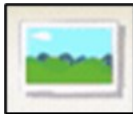
These are the **programming blocks**.



**Sequence:** A sequence is a pattern or process in which one thing follows another.



**Background:** Backgrounds are added by using this icon.



**Start Blocks:** Start blocks are used to start or run programs.



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



**End Blocks:** End blocks are used to end your program.



### Algorithms and Programming

An **algorithm** is a set of instructions for performing a task. Designing an algorithm can help us to make the quiz work in the way that we want it to.

Question	Background	Sprite	1. Start on top	2. Yes or No	3. Stop or change the background
Why does the fish...			Repeat	Say 'No'	Stop
			Tap to run	Say 'Yes'	Change to empty background

**Programming** is when we move the blocks into the position (based on our algorithm design). Programming uses a code that the computer can understand. In Scratch jr. this makes our quiz animation do the things we want it to.



### Glossary

- actions** Things the computer does, like moving or changing something.
- blocks** Pieces of code that fit together to make a computer do something.
- build** Make or create something, like putting blocks of code together to make a game or story.
- change** Make something different, like changing a colour or a number in a program.
- compare** Look at two things and see how they are the same or different.
- evaluate** Check if something works well or if it needs fixing.
- match** Find things that go together or look the same.
- outcome** The result of what happens after you run your program.
- predict** Guess what might happen next based on what you know.
- start** The beginning of a program or game, when it first begins to work.

### Debugging

Sometimes, things don't work exactly how we want them to. 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, try to **debug** it. This means finding and fixing the problems.

