



Key Vocabulary

Keyword	Definition
algorithm	A list set of instructions which is used to solve problems or perform tasks.
control	To manage, organize or run something on a computer.
instructions	A direct order or information on how something should be done.
program	To provide the computer with coded instructions to perform a task automatically.
Repeat.	To do the same action again.
selection	A section of code which is run only when a condition is met.
sequence	A specific order where related things follow each other.
variables	Things which can change depending on the information passed to the program.

What Is Scratch?

Scratch is a free, online program where you can use a **coding** language to create digital stories, games and animations using characters known as **sprites**. Scratch uses a visual **block**-based coding language. **Blocks** are joined together to create **algorithms**.

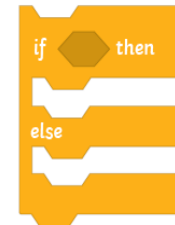
Block Categories



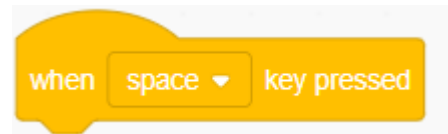
Control Blocks

Use the **if...then...else...** blocks to determine the outcome of a condition.

An **Operators** block can be placed inside the hexagonal space.



Use this key to include external controllers. This is what allows us to use controllers and keyboards to play games!



What colour are the 'motion' blocks?	What will happen if there is no green flag?
What does 'debug' mean when coding?	What will happen if a section of code is incorrect?

Remember to start the code with a green flag.



This block starts an **algorithm** when the green flag is clicked.

Here are some other blocks you should become familiar with.



Moves the sprite forward.



A speech bubble appears over the sprite for a specified time.



Plays a chosen sound without pausing the **algorithm**.

Test your sequences to check if your code is running smoothly. If not, debug it!

Debugging

Debugging is the process of testing **code** and removing any errors or bugs from the program. The term 'computer bug' was first used in 1947 by computer scientist Grace Hopper, who discovered that a dead moth in the computer was causing an error.

