



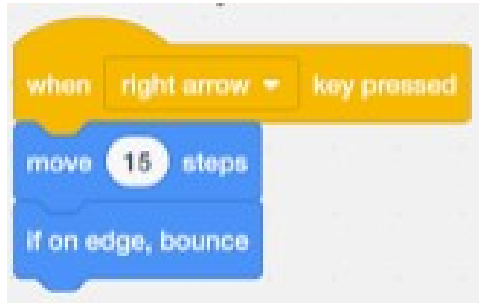
Computing Knowledge Organiser We Are Programmers



Key Knowledge

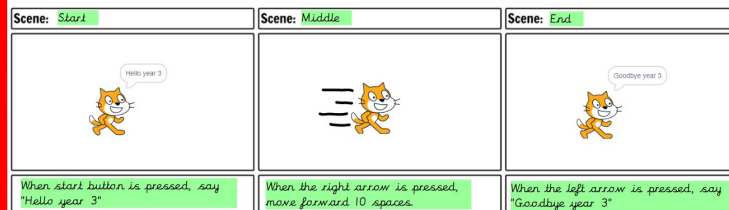
Learn these key facts

Algorithm



An **algorithm** is a set of instructions that you can give to a computer. You can do this by using **code**.

Story boards



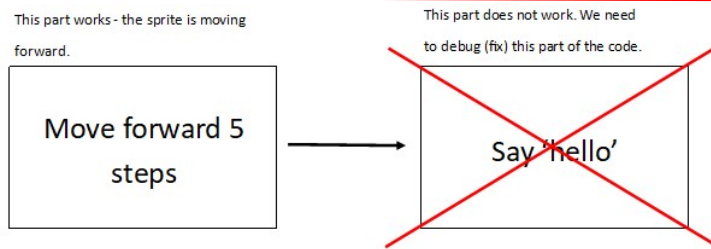
A **story board** can help us to plan a computer program step by step. We can write what we want it to do and then turn this into an **algorithm** using **code**.

Computer Animation



A **computer animation** is an image or group of images that can be made to move using a computer program.

Logical reasoning



We use **logical reasoning** to explain how some simple **algorithms** work and to detect and correct errors in **algorithms** and programs. We think carefully about what parts of the **code** are working and use this to find the part of the **code** that needs to be fixed.

Key Vocabulary

Understand these key words

Word

Definition

Algorithm

A set of instructions we give to a computer program using **code**.

Computer animation

An image or set of images that move inside a computer program.

Story boards

A way of planning an **algorithm** step by step. We draw what we want to happen and write in words what we want the **algorithm** to do. We then make **code** based on our sentences and drawings.

Logical reasoning

Thinking about how **algorithms** work by looking at each step and what happens next. We can use this to plan and **debug** **algorithms** by finding the step that isn't working.

Debugging

Looking for problems in **algorithms** and changing the **code** to fix it. **Logical reasoning** can help us to do this.

code

Languages that computers understand. We write **algorithms** using **code** so the computer understands what we want it to do.