



Y1 Thinking like a computer scientist

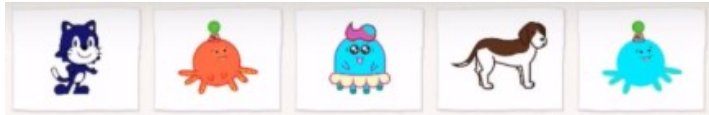
Programming a robot maze game

Key Knowledge:



Scratch Junior is an online program which I can use to learning programming.

There are different types of 'sprites' that I can use in a project.



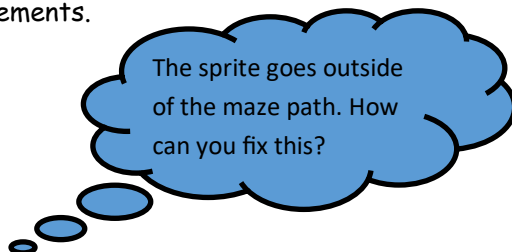
A maze can be created in Scratch by adding features to a grid background.



An algorithm can be created using simple code to control a sprite in Scratch Junior.



Sometimes, we need to change the code we have chosen to debug and make improvements.



Learning Questions

Can I design my own maze game?

How do I add features to a programme to create a challenging maze game?

What code to I need to add to complete my friend's maze game?

How can I improve my maze game?

How well does my maze game work?

Word	Definition
Algorithm	A step-by-step set of instructions used to solve a problem or complete a task.
Program	A list of instructions that a computer or robot follows to perform a task.
Debugging	Finding and fixing mistakes in a program or code.
Sprite	A character or object in Scratch Junior that can be controlled and animated.
Code	The language used to write instructions for a computer or robot.
Block	A piece of code in Scratch Junior that represents a command or action.
Maze	A complex network of paths or passages that one must navigate through.
Input	Information or instructions given to a programme to process.
Output	The result of a computer programme after processing the input.
Loop	A block of code that repeats a set of instructions multiple times.