

Coding



Curriculum links:

- Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- Create and debug simple programs.
- Use logical reasoning to predict the behaviour of simple programs

Key Knowledge:

- Understand that an algorithm is a set simple instructions.
- Understand how to program movements.
- Use an output for audio or text.
- Read code carefully to find errors in a program.
- Use logical reasoning to correct the errors (debugging).
- Program inputs to touch or click objects.
- Use selections and conditions (if statements).

Possible programs/ websites:

- iLearn2
- Scratch Jr

We should already know:

- Direction arrows can move an on screen object.
- A sequence is simple instructions to make something work.
- Finding an error in code is called debugging.

Key Vocabulary:

Algorithm	A step-by-step set of instructions that solves a problem or accomplishes a task.
Code	Line of instructions or commands written in a programming language.
Debugging	The process of finding and fixing errors or mistakes in a computer problem.
Event	An action that triggers a response or behaviour in a computer program.
Input	Data provided to a computer program for processing.
Loop	A programming construct that repeats a set of instructions until a certain condition is met.
Output	The result or response generated by a computer program.
Sequence	An order of steps or actions in a program.
Sprite	A graphic object or character that can be moved and controlled in a computer program.
Repeat	Executing the same instruction multiple times.
Variable	A placeholder for a value that can change in a program.