KS1 Computing Knowledge Organiser

Year 2 - Term 3 – Robot Algorithms

Key Focus: develop understanding of instructions in sequence.

National Curriculum Objectives:

- 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

Robot Algorithms

-To describe a series of instructions as a sequence

-To explain what happens when we change the order of instructions

-To use logical reasoning to predict the outcome of a program

-To explain that programming projects can have code and artwork

-To design an algorithm

-To create and debug a program that I have written

Key vocabulary	
Word	**Meaning**
Algorithm	An algorithm is a list of step-by-step instructions that a computer follows in order to get a task done.
Control	To manage or run something on a computer or an external device, such as a remote-controlled car.
Instruction	An order given to a computer.
Sequence	The order events must be performed to complete a task.

Sticky Knowledge:

A sequence is an order of events that must be performed to complete a task.

Changing the order of instructions in a sequence changes to outcome.

Programs can be debugged to correct mistakes.