

Year 1 Autumn 2- Computing – Algorithms unplugged



Big Question

How can algorithms help me?

Key Vocabulary for the unit:

Algorithm: A clear set of instructions to carry out a task.

Bug: An error or mistake in computer code.

Debug: To fix the error in code.

Decompose; To break something down into smaller chunks. smaller

Input: A way of telling the computer what you want it to do.

Instructions: A list of commands and directions on how to do something.

Output: Information or data that is sent by the computer to an output device such as a printer or speakers.

Solution: The method to solve a problem.

Powerful knowledge/skills for this unit:

- ◆ To understand that an algorithm is when instructions are put in an exact order.
- ◆ To understand that decomposition means breaking a problem into manageable chunks and that it is important in computing.
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What I should already know from EYFS:

- ◆ I can develop my small motor skills so that I can use a range of tools competently, safely and confidently.
- ◆ I can show resilience and perseverance in the face of a challenge.

Useful diagrams for the unit:



Full picture:	Decomposition:		
	Shape:	How many?	Body part
	●	One	Eye
	●	One	Head
	▲	One	Beak
	▲	One	Wing
	▲	One	Body
	—	Two	Legs
	■	Two	Feet