

Year 1 - Algorithms unplugged - HT2

Key Vocabulary

Algorithm	A clear set of instructions to carry out a task.
Bug	An error or mistake in computer code.
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.
Debug	To fix the error in code.
Decompose	To break something down into smaller chunks.
Device	Equipment created for a certain purpose or job.
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.

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

An algorithm for brushing your teeth:

1. Brush your front teeth
2. Add some toothpaste
3. Get your toothbrush
4. Brush your back teeth
5. Rinse your mouth
6. Smile!

There is a bug in the algorithm!

1. Get your toothbrush
2. Add some toothpaste
3. Brush your front teeth

To know statements



To know how to write clear algorithms, considering the different steps required and explaining what an algorithm is

To know how to write clear instructions in their algorithm and following an algorithm carefully

To know how to create a clear, achievable program for their virtual assistant and explaining what inputs and outputs are

To know how to show a clear decomposition of their designs into the steps that are needed to make it

To know how to identify bugs and fix algorithms

Anything else you have learnt? What have you enjoyed?