



# KS1 Computing Knowledge Organiser Year 1 Autumn: iAlgorithm



## What I will learn (sticky knowledge)

I can understand that **algorithms** are precise **instructions** that can be followed.

I can follow a simple algorithm.

I can devise a simple algorithm.

I can understand that **programs** execute by following precise and unambiguous instructions.

I can plan, test and **debug** a simple algorithm.

I can make predictions about an outcome based on a simple algorithm.

I can understand conditions and outcomes.

I can understand that some statements can only be **true** or **false**.

*E-safety. I can use technology safely and respectfully.*

### Key questions

**What is an algorithm?** *A set of instructions that are followed to achieve a task.*

**How do we give computers instructions?** *In 'code'. Instructions given in a language computers can understand.*

**What does debug mean?** *Fixing problems in computer programs.*

## What I should already know

I can recognise that a range of technology is used in places such as homes and schools.

I can switch devices on and off safely.

I can use a range of technology.

## What I will learn next

I can create and debug simple programs.

I can use logical reasoning to predict behaviour of simple programmes.

Key Vocabulary	Definition
<b>Algorithm</b>	Precise instructions that achieve a task
<b>Instruction</b>	How something should be done
<b>Sequence</b>	A particular order to follow
<b>Program</b>	Instructions written in a language (code) computers can understand
<b>Debug</b>	Fix a problem in a program
<b>Repeat</b>	Do something again
<b>True</b>	A fact or real
<b>False</b>	Not true