

# Kit's Code-Cracking Guide

Unlock the digital world: Think logically, code creatively!

- An algorithm is a precise set of instructions, like a recipe, that tells a computer exactly what to do step-by-step.
- Sequencing is the order in which these instructions are performed; if the sequence is wrong, the computer programme will not work correctly.
- Debugging is the essential process of finding and fixing errors in code, much like a detective solving a puzzle.
- A loop is a powerful tool in coding that allows the computer to repeat a specific action multiple times without needing new instructions.
- Variables act as digital 'storage boxes' that hold information, such as a player's score or the current level of a game.

*Did you know? Did you know? The first computer programmer was a woman named Ada Lovelace, who lived in the 1800s. She realised that computers could do much more than just calculate numbers—they could create art and music too!*

**Key vocabulary:** Algorithm · Sequence · Debug · Variable · Loop · Input