Kit’s Code-Cracking Guide: Master the Language of Machines

Think like a coder, solve like a pro: Unlock the digital world one line at a time!

- **An algorithm is a precise set of step-by-step instructions designed to complete a specific task or solve a problem.**
- **Sequencing is the order in which commands are executed; if one step is out of place, the entire program might fail.**
- **Debugging is the detective work of computing: it is the process of finding and fixing errors in your code so the program runs smoothly.**
- **Selection allows a computer to make a choice, often using 'if' or 'else' statements to decide which path to follow based on data.**
- **Iteration, also known as looping, tells the computer to repeat a specific section of code until a certain condition is met.**

Did you know? Did you know? The first computer programr was a mathematician named Ada Lovelace, who wrote the very first algorithm intended for a machine way back in the 1840s—long before modern computers even existed!

Key vocabulary: Algorithm · Sequence · Debug · Variable · Selection · Iteration