

Kit's Guide to Programming: Coding Your World

Think like a coder, solve like a pro: Unlock the power of the screen!

- **An algorithm is a precise set of step-by-step instructions designed to complete a specific task or solve a problem.**
- **Decomposition is the process of breaking down a large, complex problem into smaller, more manageable parts.**
- **A variable is a placeholder in your code that stores information, like a score in a game or the name of a player, which can change as the program runs.**
- **Debugging is the essential practice of finding and fixing 'bugs' or errors in your code to ensure the program works as intended.**
- **Selection uses 'if' or 'if-else' statements to allow a program to make decisions and choose different paths based on specific conditions.**

Did you know? Did you know? The first computer programmer in history was Ada Lovelace, who wrote an algorithm for a machine that hadn't even been built yet! She proved that computers could do much more than just simple calculations.

Key vocabulary: Algorithm · Decomposition · Variable · Debugging · Sequence · Selection