Kit’s Code-Cracking Adventure!

About 15 minutes. Grown-up tip: Ask your child to explain the steps of their morning routine as if they were programming a robot.

Think like a computer scientist! An algorithm is just a set of clear instructions to finish a task. Follow the steps below. Example: To make a jam sandwich: 1. Get bread. 2. Spread jam. 3. Put bread together.

- **What is an algorithm? Remember, it is a set of instructions for a computer to follow.**
- **Why must instructions be in the correct sequence for a program to work?**
- **What do we call it when we fix a mistake in our code?**
- **How can you make a computer character move across a screen using a command?**
- **Why is it important to test your program after you have written it?**

Did you know? Did you know that computers are not actually clever? They only do exactly what you tell them to do! If you forget one tiny step in your instructions, the computer will get stuck. This is why programmers must be very careful with their sequences.

Key vocabulary: Algorithm · Debug · Sequence · Input · Command