

Kit's Coding Challenge

Learning objective: To explain what an algorithm is and how to sequence instructions for a computer.

Help Kit the Fox explain how to write a simple computer program. Use the word bank to help you complete the sentences below.

An algorithm is a set of step-by-step instructions that tells a computer exactly what to do.

Word bank: algorithm · sequence · instructions · code · debug · first · next · then · finally

1. What is an algorithm? Start your sentence with: An algorithm is... (2 marks)

2. Why is it important to put your instructions in the right order? Start your sentence with: It is important to have the right sequence because... (2 marks)

3. What do you do if your code does not work? Start your sentence with: If the code has a mistake, I need to... (2 marks)

4. Write a short list of instructions to help a robot make a jam sandwich. Use words like first, next, and finally. (4 marks)

Extension challenge: Can you spot a mistake in your sandwich code? Explain how you would fix it using the word 'debug'.