Kit’s Clever Coding Planner

Learning objective: I can design a clear, logical algorithm to complete a task.

About 15 minutes. Grown-up tip: Encourage your child to act out their steps to see if the sequence makes logical sense.

An algorithm is just a list of instructions to complete a task. Think of it like a recipe. You must write the steps in the correct order so nothing goes wrong!

Worked Example: To make a jam sandwich:
1. Get two slices of bread.
2. Spread jam on one slice.
3. Put the slices together.

Use the boxes below to plan your own algorithm for a simple task, like brushing your teeth or making a cup of tea.

Word bank: Sequence · Algorithm · Step · Order · Loop · Debug

1. Task Goal: Write down the name of the simple task you have chosen to explain. (1 mark)

2. Equipment List: What items do you need to have ready before you start your task? (2 marks)

3. Step-by-Step Instructions: Write your algorithm here. Remember to number your steps clearly. (4 marks)

4. The 'What If' Check: What would happen if you performed Step 2 before Step 1? Would the task still work? (2 marks)

5. Refining: Is there a way to make your instructions even shorter or clearer? Write your improved step here. (2 marks)

Extension challenge: Can you spot a 'bug' (a mistake) in your algorithm? Find one step that is out of order and rewrite it correctly below.



I did it! Name: _____ Date: _____

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