

Kit's Clever Coding Plan

Learning objective: To design a simple algorithm or sequence of instructions to solve a problem.

Kit the fox needs your help! He is building a robot to help in the garden. Use the boxes below to plan how the robot will move. Think about the steps in order. Use the word bank to help you.

Word bank: Algorithm · Sequence · Input · Command · Action · Step · Robot · Bug

1. The Goal: What is the main job you want the robot to do? (e.g. pick up a toy) (2 marks)

2. Step 1: What is the first thing the robot must do? (2 marks)

3. Step 2: What happens next? Write the next instruction. (2 marks)

4. The Finish: How does the robot know the job is finished? (2 marks)

5. Testing: What would you do if the robot made a mistake (a bug)? (2 marks)

Extension challenge: Can you draw your robot in the space below? Label the parts that help it move.