Kit’s Robot Garden Planner

Learning objective: I can create and debug a simple sequence of instructions (an algorithm) for a robot.

About 15 minutes. Grown-up tip: Ask your child to give you 'robot instructions' to make a cup of tea or a sandwich to see if you can follow them exactly!

Kit the Fox is building a robot to plant seeds in the school garden. A computer program is just a list of instructions in the right order. We call this an algorithm.

Example: To move the robot to the flowerbed, use: [Move Forward], [Move Forward], [Turn Right].

Help Kit by putting these instructions in the correct order to plant a row of sunflowers. Use the words from the word bank to fill in the blanks.

Word bank: Move Forward · Dig Hole · Drop Seed · Cover with Soil · Move Backward

1. 1. The robot starts at the path. It needs to reach the soil. Write the first instruction. (1 mark)

2. 2. Now the robot is at the garden bed. What should it do to prepare the ground? (1 mark)

3. 3. The robot has the seed ready. What instruction comes next? (1 mark)

4. 4. The seed is in the hole. How does the robot finish this task? (1 mark)

5. 5. Oh no! The robot forgot to move away. What is the final instruction to return to the path? (1 mark)

Draw: Kit the clever fox wearing a computer-style headset, standing next to a small garden robot in a sunny school playground with an oak tree in the background.

Extension challenge: Kit made a mistake! If the robot tries to 'Cover with Soil' before it 'Digs Hole', the program will fail. This is called a bug. Explain why the order of these instructions is so important.



I did it! Name: _____ Date: _____

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