Kit’s Clever Debugging Detective Log

Learning objective: I can identify, explain, and fix errors in a sequence of instructions.

About 15 minutes. Grown-up tip: Encourage your child to read their instructions out loud to see if the steps make sense in the real world.

Help Kit the fox fix his broken computer programs! A 'bug' is a mistake in your instructions. To debug, you must find the error, describe why it went wrong, and write the correct steps.

Example: If the instruction is '1. Put on shoes, 2. Put on socks', the bug is the order. Correction: 1. Put on socks, 2. Put on shoes.

Word bank: bug · debug · sequence · instruction · error · correct · order · problem

1. The Bug Hunt: Look at the broken sequence provided by your teacher. Describe the error you found in the instructions. (2 marks)

2. The Reason: Why does this error stop the program from working correctly? Think about what happens next. (2 marks)

3. The Solution: Write the new, correct sequence of instructions so the program works perfectly. (3 marks)

4. The Test: If you ran your new instructions, what would the final result be? Describe the outcome. (2 marks)

5. The Reflection: Why is it important to check your work for bugs before finishing your code? (2 marks)

Extension challenge: Imagine you are teaching a robot to make a jam sandwich. Write down 5 steps, but hide one 'bug' in the sequence for a friend to find and fix!



I did it! Name: _____ Date: _____

Too easy? Try Greater Depth. Too tricky? Try Supported. More at bookflik.com/resources