

Kit's Clever Coding Challenge

Learning objective: To understand core programming concepts including algorithms, debugging, and input/output.

Join Kit the fox for a quick coding quiz! Read each question carefully and circle the best answer or write your response in the space provided.

Answer Key: 1. A (Algorithm); 2. True; 3. Debug; 4. B (A set of repeating instructions); 5. False (It is a mistake in code); 6. Input; 7. Sequence; 8. C (To make the code work correctly); 9. True; 10. A (The information sent out by the computer).

Word bank: Algorithm · Debug · Input · Output · Sequence · Loop · Variable · Bug

1. Kit needs a set of step-by-step instructions to solve a problem. What is this called? A) Algorithm* B) Recipe C) Story D) Guess (1 mark)

2. True or False: A computer program must follow a specific order to work correctly. (1 mark)

3. When your code has a mistake and you need to fix it, what is this process called? (1 mark)

4. What is a 'loop' in programming? A) A type of knot B) A set of repeating instructions* C) A circle shape D) A computer monitor (1 mark)

5. True or False: A 'bug' is a helpful feature that makes the computer faster. (1 mark)

6. When you press a key on a keyboard or click a mouse, this is known as an _____. (1 mark)

7. What do we call the order in which instructions are carried out? (Starts with S) (1 mark)

8. Why do we test our programs? A) To see if it looks pretty B) To see if it is loud C) To make sure the code works correctly* D) To see if it is expensive (1 mark)

9. True or False: Computers can only do exactly what they are programmed to do. (1 mark)

10. What is 'Output'? A) The information sent out by the computer* B) The power cord C) The screen brightness D) The keyboard (1 mark)

Draw: Draw a flowchart showing how you get ready for school in the morning. Use arrows to show the sequence of events!



Extension challenge: If you were coding a robot to make a jam sandwich, what is the most important step you might forget? Write down the algorithm for 'spreading the jam' as clearly as possible for a computer to follow.