

Kit's Clever Coding Quiz

Learning objective: To understand the basic concepts of algorithms, debugging, and programming sequences.

Help Kit the fox solve these coding challenges! Read each question carefully and write your answers clearly.

Answer Key: 1. A (Algorithm), 2. True, 3. Debugging, 4. C (A sequence of instructions), 5. False, 6. Bug, 7. B (To repeat an action), 8. Input, 9. A (To fix a mistake), 10. False.

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

1. 1. What do we call a precise set of instructions to complete a task? A) Algorithm* B) Recipe C) Script D) Pattern (1 mark)

2. 2. True or False: In coding, the order of instructions (the sequence) is very important. (1 mark)

3. 3. What is the process of finding and fixing an error in a computer programme called? (1 mark)

4. 4. What is a 'programme'? A) A type of computer B) A digital game C) A sequence of instructions* D) A piece of hardware (1 mark)

5. 5. True or False: If a computer programme has a bug, it will always work perfectly. (1 mark)

6. 6. Fill in the blank: An error in a line of code is commonly known as a _____. (1 mark)

7. 7. What is the purpose of a 'loop' in coding? A) To delete code B) To repeat an action* C) To finish the programme D) To add colour (1 mark)

8. 8. When you press a key on a keyboard to send information to a computer, this is called an _____. (1 mark)

9. 9. Why do we 'debug' our code? A) To fix a mistake* B) To make it look pretty C) To delete the programme D) To change the language (1 mark)

10. 10. True or False: Computers are clever enough to know what you mean even if your instructions are in the wrong order. (1 mark)

Draw: Draw a flow chart showing the steps to make a cup of tea or a jam sandwich. Use arrows to show the sequence of instructions.



Extension challenge: Imagine you are Kit the fox. Write a short 'algorithm' (a list of 5 steps) to teach a robot how to brush its teeth properly.