

Kit's Clever Computing Quiz: All About Algorithms

Learning objective: To understand that an algorithm is a set of precise instructions used to solve a problem or complete a task.

Hello! I am Kit the fox. I love solving puzzles with code. Read each question carefully. Use the word bank if you get stuck. You can do this!

Answer Key: 1. A, 2. True, 3. False, 4. B, 5. True, 6. Sequence, 7. False, 8. C, 9. Algorithm, 10. True. An algorithm is a set of steps. If the steps are in the wrong order, the task will not work correctly.

Word bank: Algorithm · Sequence · Instructions · Error · Order

1. 1. What is an algorithm? A) A list of instructions*, B) A type of fruit, C) A computer screen, D) A game. (1 mark)

2. 2. True or False: An algorithm must be in the correct order to work. (1 mark)

3. 3. True or False: Computers can think for themselves without any instructions. (1 mark)

4. 4. What do we call a mistake in an algorithm? A) A win, B) An error*, C) A jump, D) A code. (1 mark)

5. 5. True or False: A recipe for baking a cake is an example of an algorithm. (1 mark)

6. 6. Fill in the blank: A _____ is the specific order of steps in an algorithm. (1 mark)

7. 7. True or False: You only need one step for every algorithm. (1 mark)

8. 8. Which of these is a good algorithm for brushing teeth? A) Brush, then add paste. B) Rinse, then brush. C) Add paste, then brush*. (1 mark)

9. 9. Fill in the blank: A set of clear _____ helps a robot move across a room. (1 mark)

10. 10. True or False: Algorithms help computers complete tasks quickly. (1 mark)

Draw: Draw a robot following an algorithm to make a cup of tea. Draw arrows to show the steps!



Extension challenge: Think of a morning task you do, like getting dressed. Write down 3 steps in the correct order to explain how you do it.