

Kit's Clever Coding Quest

Learning objective: To understand that an algorithm is a set of instructions used to complete a task in the correct order.

Help Kit the fox get to his den by following the instructions. Remember, computers need clear steps to follow!

An algorithm is a special list of instructions. Just like a recipe for baking a cake or the steps to get dressed, an algorithm tells us exactly what to do, one step at a time, to reach our goal.

Word bank: algorithm · order · instructions · step · sequence · start · finish

1. Kit wants to make a sandwich. If he puts the jam on before the bread, will it work? Why is the order of steps important? (2 marks)

2. If Kit needs to walk forward 2 steps and turn right to find his den, what do we call this set of instructions? (1 mark)

3. Circle the things that follow an algorithm: A) Brushing your teeth, B) Watching the clouds, C) Putting on your shoes and socks. (2 marks)

4. If you missed a step in your algorithm to get ready for school, what might happen? (2 marks)

5. Draw an arrow to show Kit the way to his den: Start -> Step forward -> Turn right -> Step forward. (2 marks)

Draw: Draw a map for Kit the fox. Include a path with three obstacles he needs to jump over, and draw arrows showing the 'algorithm' path he must take to reach his cosy den.



Extension challenge: Try to write a 3-step algorithm for your friend to follow to reach the classroom door. Test it out to see if your instructions were clear!