

COMPUTING · GRADES 4–5

# Coding Logic Puzzles

Think like a computer — no computer needed

## Puzzle 1 — Sequence

1. A robot needs to make a sandwich. Put these steps in order: put on lid · spread butter · take out bread · put on filling · cut in half.

## Puzzle 2 — Loops

1. A robot says 'hello' 5 times. Write this as a LOOP using fewer than 5 lines.
2. Hint: REPEAT 5 TIMES { say 'hello' }

## Puzzle 3 — Conditionals

1. A robot has to walk through a maze. Write rules using IF / THEN / ELSE for what to do at every junction (e.g. IF wall to right THEN turn left ELSE go straight).

## Puzzle 4 — Debugging

1. Find the bug: 'Pour milk into bowl. Pour cereal. Eat. Get spoon.' What's wrong? Rewrite in the right order.

## Puzzle 5 — Decomposition

1. Break 'tidy your bedroom' into smaller steps. Try to write at least six steps.

