

Computational thinking unplugged

technology

What you need: masking tape for one demo floor grid · desk grid mats (simple 4-by-4 grid on paper or card) · instruction cards (forward, turn left, turn right) · robot tokens (cube, rubber, or small toy) · start and goal markers (paper squares, cones, or coloured counters) · obstacle marker for the wall square

Words to use

Algorithm · Decomposition · Bug · Debugging

Our question

Can we write a precise sequence of instructions that guides the robot from start to goal using only forward, turn left and turn right?

I predict...because...

What we found out

Where did the algorithm go wrong?

Which single step caused the bug?

What change fixed it?

