Computing – Understanding coding

Coding is all about creating a sequence of clear and straightforward instructions.

Computers use the language of code to work properly and to run programs.

Coding is going on all around us with the technology we use everyday. For example when you push the 'on' button on your TV remote the code might be something like

"When this button is pressed, make the display on the TV come on".

Activity 1
Have a go at the short activity below sorting the instructions to help the red robot get to the big red dot. The instructions are written in the wrong order.

Activity 2
Can you write instructions for the little red robot to go through the coding maze and get to the big red dot?

Optional Activity 3 – Challenge
Can you design your own maze and put some obstacles in the way? Then write some Instructions for someone or something to get through it?

Robot Red needs to charge up on the red spot. Unfortunately his commands have all got muddled up. Can you put the commands in the correct sequence to guide him to the red spot? Use the red dots to help you.
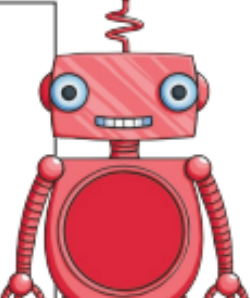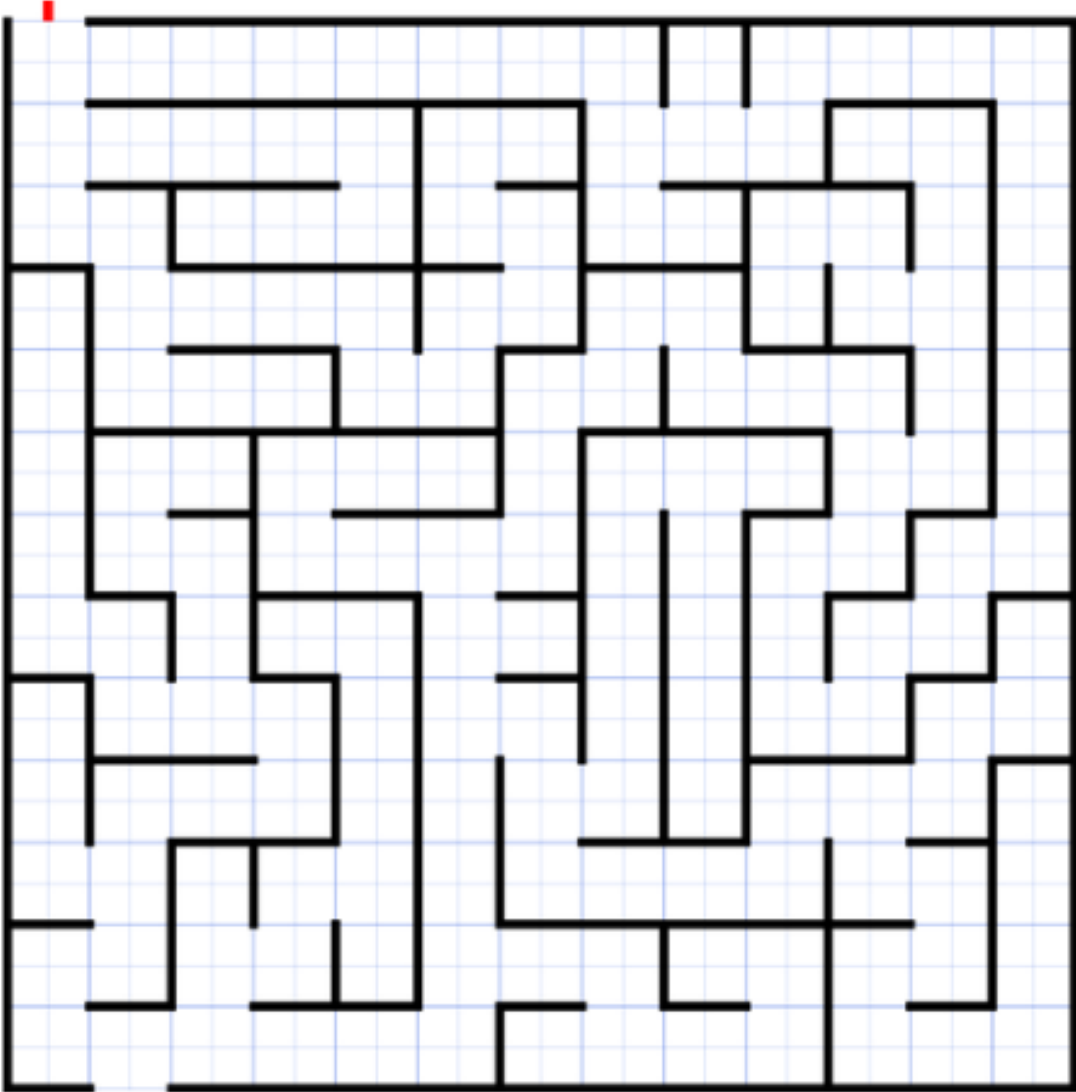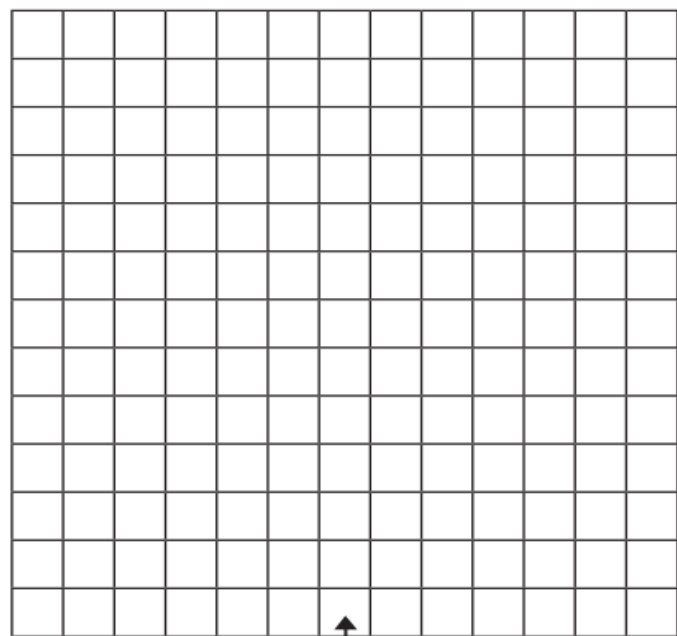
Activity 1

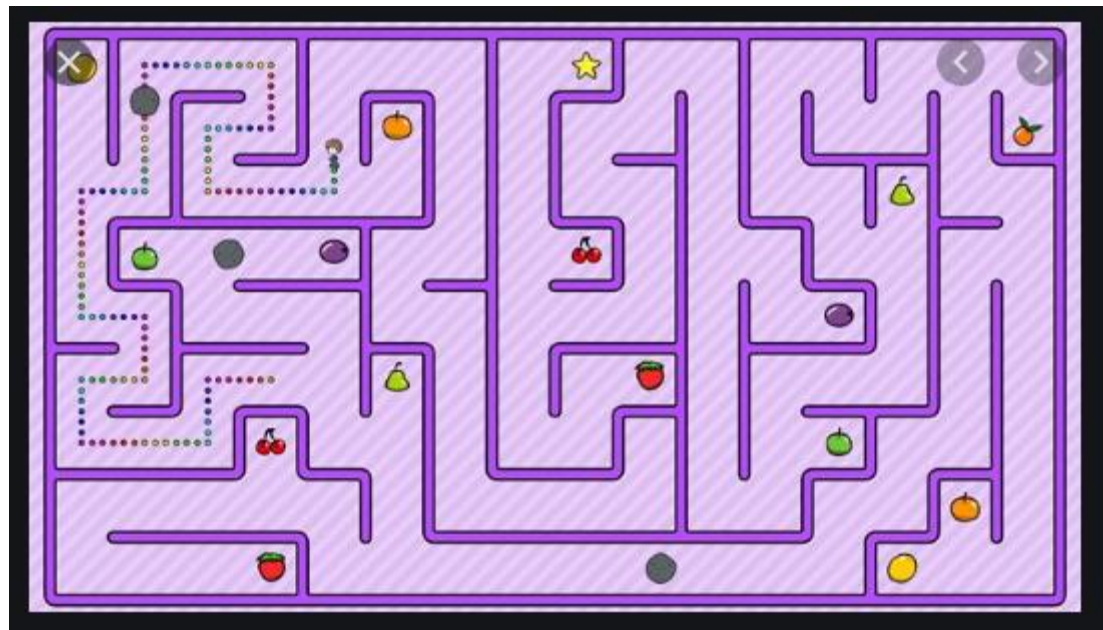| Oops! |
| :---: |
| turn 90° right |
| forward 4 |
| forward 3 |

Sorted!

Coding Maze

Activity 2

Start

Activity 3

Score: 160   Lives: