

U2-2.1a Challenge up: Drive the maze safely

You can write programs for Edison which tell your robot to use multiple types of outputs.



Don't forget

Your Edison robot has three main types of outputs: outputs using the motors, outputs using the LEDs and outputs using sounds. In EdScratch, the blocks related to Edison's main outputs are organised into three different categories: **Drive**, **LEDs** and **Sound**.

For this activity, you will need to write a program telling Edison to drive the maze on activity sheet U2-3. This time, however, Edison needs to be a very safe driver. On the road, drivers use their indicator lights and horn to alert other drivers. Edison can do these things too!

Drive the maze starting at the outline and driving forwards to the finish line. Your program should end after Edison crosses the finish line.

Your program needs to tell Edison to pause and use the LED lights to 'indicate' before making each turn in the maze. Make sure other drivers would be able to see the LEDs indicate!



Hint!

If you are going to turn left, which LED should you use to indicate? What about when you turn right?

Your program should also use the 'beep' block at least one time somewhere in the program.



Hint!

Pretend the 'beep' block is like a horn in a car. Where in your program might it make sense for Edison to beep?

Student Journal

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Design a crazy car to carefully drive through your maze.

Draw your crazy car creation!

