

Line Following Car

60 minutes**Designing and Building for the Future**

WHAT THIS LESSON DOES

In this step-by-step lesson, you'll learn to program a Move Motor Car to follow a line track using a Microbit. You'll create a new project, add an extension, create variables, and set up LEDs. You'll then program the car to turn right, left, and move forward. Finally, you'll test your car on a track and tweak the code for optimal performance.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Understand and apply the concept of programming a Microbit to control a Move Motor Car.
- Create and manipulate variables to store sensor values and control the car's movements.
- Implement conditional logic to guide the car's movements based on sensor readings.
- Use LEDs for visual feedback and enhance the functionality of the car.
- Experiment with code modifications to optimise the car's performance on different tracks.

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HOW THE LESSON RUNS

Introduction

Create a new project

Add the extension

Create the variables

Setup the LEDs

Turn right

Turn left

Go forwards

Test it on a track

Tweak the code