

Compass

60 minutes

Microbit Basics

WHAT THIS LESSON DOES

Embark on a journey to understand compass sensors, their functionality, and their role in robotics. Learn how to use the Microbit's built-in compass sensor, calibrate it for accurate readings, and write code to utilise it. Discover the wide range of applications for compass sensors in robotics.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Develop an understanding of the function and importance of compass sensors in robotics.
- Comprehend the working mechanism of compass sensors, particularly in relation to the Earth's magnetic field.
- Gain knowledge about the microbit compass and its features.
- Learn how to calibrate the microbit compass for accurate readings.
- Acquire skills to program the microbit compass for specific tasks.
- Explore various applications of compass sensors in robotic navigation and orientation.

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HOW THE LESSON RUNS

Understanding Compass Sensors

How Compass Sensors Work

The Microbit Compass

Calibrating the Microbit Compass

Programming the Microbit Compass

Compass Sensor Applications