

LESSON 2

History of robotics

20 minutes

Robotics & Engineering Basics

WHAT THIS LESSON DOES

In this lesson, we'll learn about the history of robotics, from the earliest mechanical devices to modern robots equipped with advanced sensors and artificial intelligence. We'll explore the impact of robotics on society and the future of this exciting field. By the end of the lesson, we'll have a better understanding of how robotics has changed the way we live and work.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Understand the evolution of robotics from ancient mechanical devices to modern technology.
- Recognise the impact of the Industrial Revolution on the development of robotics.
- Identify key milestones in the history of robotics, including the introduction of the term 'robot' and early robot designs.
- Analyse the current applications and advancements in robotics across various fields.
- Evaluate the societal impact and ethical considerations of robotics, including future possibilities and implications.

BEFORE THE BELL

- Begin with an engaging introduction to the history of robotics, highlighting its origins from ancient mechanical devices to the Industrial Revolution. Discuss early mechanical devices like water clocks and automata, focusing on their functionality and influence on modern robotics. Explore the Industrial Revolution's role in advancing automation and machine development. Introduce early robots from the 1950s, their industrial applications, and the origin of the term 'robot'. Cover advancements in robotics, including AI and sensors, and their diverse applications today. Discuss the impact of robotics on efficiency, productivity, and ethical considerations. Conclude with a look at the future of robotics, discussing potential societal implications and benefits. Encourage students to research and reflect on each step's topics.

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HOW THE LESSON RUNS
Introduction
Exploring the First Mechanical Devices
The Industrial Revolution
Early robots
Advancements in Robotics
Impact of robotics
Future of Robotics