
SYNOPSIS:

Robots used to be the stuff of science fiction, but today researchers have made inroads into this technology that would surprise even our most daring futurists. This program looks at the developments in robotics and automation technology. It explores the limitations of our current knowledge as well as recent breakthroughs.

CURRICULUM UNITS:

Biology
Chemistry
Computer Science
Engineering
General Science
Physics

CAREER OPPORTUNITIES:

Animation Engineer
Computer Scientists
Engineer
Programmer
Prosthetic Engineer
Researcher
Robotician

PROGRAM OVERVIEW:

From the simple remote controlled car to the most technologically advanced automated factory, robots have become an integral part of our world. This program explores how robotics technology is currently used and some advances we can expect in coming decades.

ISSUES AND CRITICAL THINKING:

- 1) After showing the program, ask your students the following questions:
 - a) What kind of chores can robots do?
 - b) What type of robot would you create if you were a robotics expert?
 - c) What are some types of robots we may see during the next century?
 - d) What is the difference between remote controlled and automated robots?

- 2) Have students discuss possible ways that robots will change our lives.

ANIMATION- The process of making something appear to have life, interest, spirit, motion or activity.

ARTIFICIAL- An imitation made to substitute for something natural.

CURRENT- Continuous steady, smooth, onward movement of a fluid.

DRAG- A force such as air or water that retards motion when exerted on a moving body.

PROSTHESIS- An artificial device to replace a missing body part.

SENSORS- Devices that receive and respond to a signal or stimulus.

TRANSPLANTED- To take up and replace in different soil.

VIRTUAL REALITY- A computer simulation of a real or imaginary system that enables a user to perform operations on the simulated system and shows the effects in real time.

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Biotechnology



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ROBOTS, OUR
FUTURE SERVANTS



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