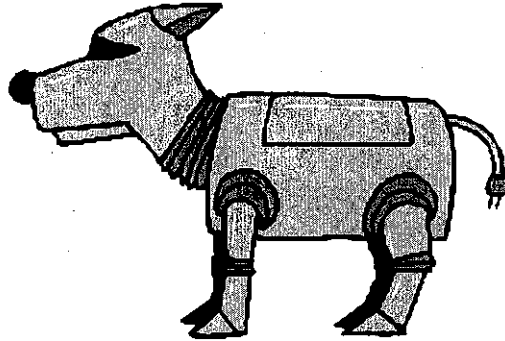


# ROBOTS



Go to your public, school, and classroom libraries and check your home for any books about robots. Collect all the different materials you can on this topic and bring them to school. Read and research all you can about robots. Keep a bibliography on all the books you read and record them on your "Radical Robots" chart.

Make a chart that will visually answer the questions:

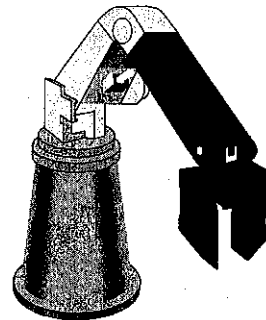
- What kinds of jobs can robots do better and more safely than humans?
- What kinds of jobs can humans do better than robots?

This kind of chart is usually divided into sections for each question. The question should be re-stated as a statement and displayed in the section with the information.

Go on a "robot tour" in your community. Many businesses use robots to do work or for advertising. Robots are also available in stores for people to buy. See how many different robots you can find in your area. Keep a journal and record information about each robot. You may also want to take photographs of the robots you find.

Some places to visit:

- Police Department
- Post Office
- Sharper Image or Brookstone
- Factories
- Local hospitals



Write directions for a robot to perform a simple task, like taking out the trash or making a sandwich. You will have to be very specific because a robot cannot independently problem solve. Use Chapter One of *Every Kids First Book of Robots and Computers* to help you get started. To test your instructions, ask someone to follow your instructions EXACTLY. They can't ask questions, attempt to solve any problems they encounter in your instructions, or substitute a common response. Make any necessary revisions.

Read pages 24-27 of the *Usborne New Technology Book of Robotics*, and then complete the following activities:

- Holding hands (pg. 26)
- How to Make your Pneumatic Gripper (pg. 25)
- Make Your Own Electromagnet (pg. 27)

Select a task you would like a robot to perform. Design a robot that would be equipped for the task. Remember robots are designed for function, not looks. Create a flipbook showing your robot in action. Using recyclable materials, create a model of your robot.

Make a "robot dictionary" so that others will understand what you are talking about. Some words to include are:

- android
- components
- computer
- Humanoid
- microprocessors
- monitor
- Optic fibers
- programmer
- prototype
- remote control
- robot
- self-diagnosis
- sensors

Remember a dictionary is in alphabetical order.

