

NAME: _____

DATE: _____

COURSE: _____

Lesson 1 • How does technology mimic living things?

- 1 How can this device help someone communicate?
Discuss as a class.



Key Words

- sensor system
- prosthetic limb
- nanotechnology
- atom
- nanobot

Flash Lab

With a partner, make a list of all the technology you use and discuss how each kind helps you.

- 2 Read and circle T (true) or F (false).

Technology and the Human Body

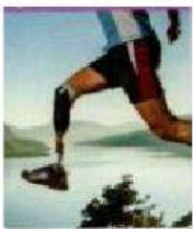
The human body is an amazing structure. Engineers sometimes use scientific knowledge of how the body works to develop technologies. Some of the technologies help people whose bodies do not function as they should. Some technologies do tasks that are too dangerous for people. Technologies that have moving parts can be like the human body. A robot is one of these technologies. Robots can have a body structure and movable joints that are similar to the human skeletal and muscular systems. Robots use an electrical energy source to help them move. The human body uses energy from food to help it move. Robots have a **sensor system** and a computer to control movement. In the human body, the brain and nervous system help to control movement.



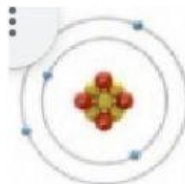
1.- READ AND SELECT T (true) or F (false)

- | | | |
|---|---|---|
| 1.- Technology can Benefit people with disabilities. | T | F |
| 2.- Robots can mimic parts of the human body. | T | F |
| 3.- Robots have nervous systems to control movement | T | F |
| 4.- Robots can use a variety of energy sources to operate | T | F |

2.- LOOK AT THE PICTURES AND SELECT THE CORRECT OPTIONS



- A) prosthetic limb
B) nanobot



- A) plaque
B) atom

3.- LOOK AND LABEL THE PARTS OF THIS MODERN ROBOTIC ARM THAT ARE LIKE A HUMAN ARM.

SHOULDER - WRIST - ELBOW



4.- SELECT THE CORRECT DEFINITION FOR THE NEXT WORD.

1.-NANOBOT

- A) a robot with a human appearance.
- B) a hypothetical, very small, self-propelled machine