



Robotics and Prosthetics

Reading Worksheet — Level C | tahricteaches.com

Robots are special machines. They can move and do many tasks. Some robots are very big, and some are very small. We can see **robots** in factories, hospitals, and even in our homes. They help people do difficult or dangerous work safely.

An **engineer** is a person who designs and builds machines like robots. Engineers think carefully about how a robot should look and what it should do. They use computers and special tools. Engineers work hard to make robots that are safe and useful for people.

A **prosthetic** is a special body part that people make. It is not a real body part, but it works like one. For example, some people do not have an arm or a leg. A prosthetic arm or leg helps them do everyday things like writing or walking.

Modern prosthetics use **sensors** to feel movement. When a person moves their body, the sensor tells the prosthetic what to do. Some prosthetic arms can pick up small objects. Some prosthetic legs can help people walk, run, or even dance at a party.

Many prosthetics use **electric** power to work. Small batteries inside give the prosthetic its energy. Robots and prosthetics work in similar ways. Scientists and engineers are working every day to make them better. In the future, these amazing machines will help even more people live happy and healthy lives.

A. Vocabulary

- | | |
|--------------------|---|
| 1. robot ____ | a. thing you can pick up, hold, or touch |
| 2. prosthetic ____ | b. powered by electricity |
| 3. engineer ____ | c. small device that stores and gives electrical energy |
| 4. sensor ____ | d. machine that can move and do tasks on its own |
| 5. electric ____ | e. artificial body part that replaces a missing one |
| 6. factory ____ | f. person who designs and builds machines or structures |
| 7. battery ____ | g. small device that detects movement or changes nearby |
| 8. movement ____ | h. large building where machines make products |
| 9. object ____ | i. act of moving from one place to another |
| 10. energy ____ | j. power needed to move or do work |

B. True or False

- | | |
|--|---|
| ____ 1. Robots can move and do many tasks. | ____ 2. All robots are very big. |
| ____ 3. An engineer designs and builds machines. | ____ 4. Engineers do not use computers. |

___ 5. A prosthetic is a real body part.

___ 6. A prosthetic arm can help someone write.

___ 7. Sensors help prosthetics feel movement.

___ 8. Some prosthetic legs can help people dance.

___ 9. Prosthetics use gasoline to work.

___ 10. Scientists want to make robots and prosthetics better in the future.

C. Fill in the Blanks

Word Bank: robot, engineer, prosthetic, sensor, electric, factory, battery, energy

1. A _____ is a machine that can move and do many tasks.

2. An _____ designs and builds machines like robots.

3. A _____ helps people who are missing a body part.

4. A _____ tells the prosthetic when the body moves.

5. Many prosthetics use _____ power from small batteries.



D. Comprehension Questions

1. What is a robot, and where can we find robots?

2. How does a prosthetic arm or leg help people?

3. What kind of power do many prosthetics use to work?

E. Discussion Questions

1. If you could build a robot, what would it do and why?

2. How do you think prosthetics help people feel more independent and happy?



Answer Key

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A. Vocabulary: 1-d, 2-e, 3-f, 4-g, 5-b, 6-h, 7-c, 8-i, 9-a, 10-j

B. True/False: 1-T, 2-F, 3-T, 4-F, 5-F, 6-T, 7-T, 8-T, 9-F, 10-T

C. Fill Blanks: 1-robot, 2-engineer, 3-prosthetic, 4-sensor, 5-electric

D. Comprehension:

1. A robot is a machine that can move and do many tasks. We can find robots in factories, hospitals, and homes.
2. A prosthetic arm or leg helps people who are missing a body part do everyday things like writing or walking.
3. Many prosthetics use electric power from small batteries inside them.

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