WEEK 4

GRADE 6

UNIT 1

TOPIC 1.3

HOW ROBOTS WORK

Q1. List down the major components of a robot?

Ans: The major components of a robot are

- Sensors
- Actuators
- Controller

Q2. What is the function of a controller in robots?

Ans: A Controller is the brain of a robot. The controller is programmed to do a job. A robot cannot think like a human. It carries out whatever instructions it has been programmed to do.

Q3. What are actuators in a robot?

Ans: Robots do not have muscles and bones like humans. Actuators are the mechanical parts of a robot that help to lift and move objects. The actuators in a robot do the same job as the muscles in your arm.

Q4. How is a proximity sensor different from a pressure sensor?

Ans: A proximity sensor tells a robot how close an object is while a pressure sensor lets a robot know that it is touching something.

Q5. What is the purpose of a vibration sensor in a robot vacuum cleaner?

Ans: A vibration sensor tells the cleaner that the area needs more cleaning if a lot of dirt hits the sensor.