

Lesson 5: How do we use Electricity?

Question of
the Day:

When Lindsey got home from school, she noticed that there was no electricity. Which of these items will she be able to use before the electricity comes back on?

- A. TV
- B. Computer
- C. Violin
- D. Toaster

Electricity has many uses

- Electrical appliances perform useful task by converting electrical energy into other forms of energy such as sound, thermal, and mechanical energy.
 - Some run on batteries
 - Some plug into an outlet
- Electricity changed life and helped make every day task easier
 - Examples: heaters, vacuums, blow dryers, ovens, etc.
- Electric motor – is a device that converts electrical energy into mechanical energy.

Question of the Day:

The magnet is moving inside the wire coil, producing an electric current.

What happens to the electric current if the magnet no longer moves in the coil?

- A. It stops flowing.
- B. It continues to flow as it did.
- C. It flows in the opposite direction.
- D. It starts to flow in the magnet instead of the wire.

Electromagnetic

- A device that which current produces magnetism is called an electromagnet.
 - Can be found in telephones, doorbells, speakers, and computers
 - Moving a wire and magnet near each other produces an electrical current.

Conserving Electricity

- Generator is a device that converts kinetic energy to electrical energy.
 - Electricity travels through wires to homes, schools, and businesses