

### Section 3: Current Electricity

Unlike static electricity, **current electricity** is the continuous flow of electrons along a wire. The electricity that powers your home, a phone, or a television is current electricity. The flow of electrons carries energy that can be converted into other forms of energy, such as light (in a light globe) or heat (in a heating element).

#### Questions:

1. True or False: Electrical appliances are powered by static electricity.

\_\_\_\_\_

2. What is an electric current?

\_\_\_\_\_

3. Provide two examples of how the energy of an electric current is transformed into other types of energy.

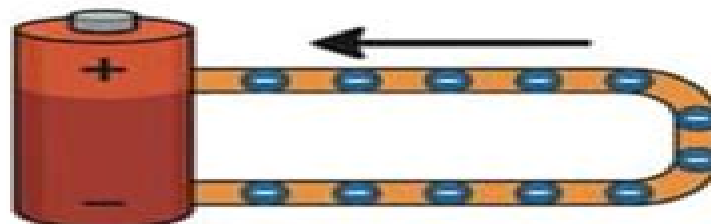
Example 1: \_\_\_\_\_

Example 2: \_\_\_\_\_

**Challenge Question:** Think of an electrical device that transforms electrical energy into at least three other forms of energy. Name the device and describe the energy transformations.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ELECTRIC CURRENT IS  
THE FLOW OF ELECTRONS**



**ELECTRON**

# Electric Circuits Physics Classroom Answer Key

**Reginald Robert Hawkins**



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