

## CHAPTER

## 22

## Study Guide

## Current Electricity

## Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

ampere

electric current

resistor

battery

kilowatt-hour

series connection

conventional current

parallel connection

superconductor

electric circuit

resistance

- \_\_\_\_\_ A(n) \_\_\_\_\_ is a material with zero resistance.
- \_\_\_\_\_ The \_\_\_\_\_ of a wire determines how much current will flow through the wire when a voltage is applied.
- \_\_\_\_\_ The \_\_\_\_\_ is the flow of charged particles.
- \_\_\_\_\_ In a(n) \_\_\_\_\_, there is only one path for the current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a unit of energy.
- \_\_\_\_\_ In a(n) \_\_\_\_\_, there is more than one path for the current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is the unit of current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a closed loop in which electrons can move.
- \_\_\_\_\_ A(n) \_\_\_\_\_ converts chemical energy to electrical energy.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is the flow of positive charge.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a device designed to have a specific resistance.

## Section 22.1

## Current and Circuits

In your textbook, read about electric circuits on pages 591–593.

For each statement below, write true or rewrite the italicized part to make the statement true.

- \_\_\_\_\_ Negative charge flows from a higher potential to a lower potential.
- \_\_\_\_\_ The flow of *electrons* is called conventional current.

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