

## Chapter 26

Use with Section 3

## REINFORCEMENT

## ● Electric Circuits

Use the terms and statements from this box to complete the table.

amount of electric energy used by a device	watt
a circuit that has only one path for the electric current to follow	a circuit that has more than one path for the electric current to follow
kilowatt	George Simon Ohm
Ohm's law	kW
parallel	$P = I \times V$
power = current $\times$ voltage	parallel circuit
series circuit	series
voltage = current $\times$ resistance	$V = I \times R$
	W

### IMPORTANT FACTS ABOUT ELECTRIC CIRCUITS

#### 1. There is a relationship among voltage, current, and resistance in an electric circuit.

Name of law:	
Discovered by:	
Expression of law:	
Equation:	

#### 2. There are two types of electric circuits.

Two types of circuits:	<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> </ol>
Definitions of these circuits	<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> </ol>

#### 3. The electrical power of a circuit can be measured.

Definition of electrical power:	
Unit of electrical power:	<ol style="list-style-type: none"> <li>1. Name:</li> <li>2. Abbreviation:</li> <li>3. Term for 1000 units:</li> <li>4. Abbreviation for 1000 units:</li> </ol>
Determining the electrical power of a circuit:	<ol style="list-style-type: none"> <li>1. Expression:</li> <li>2. Formula:</li> </ol>