Name	Date	Cla	ss
Lesson Outline			LESSON 3
Describing Circuits			
<b>A.</b> Parts of an Electric Circuit			
<b>1.</b> An electric circuit transforms _ energy.		energy to other	forms of
<b>2.</b> An electric circuit contains a(n)	)	source.	
<b>a.</b> A(n)	is often used as a	n energy source.	
<b>b.</b> As chemicals react within a l	pattery, the battery's		
terminal loses electrons and electrons.	its	terminal ga	ains
<b>c.</b> When the terminals are cont	nected in a closed circu	uit, electrons flow fro	om the
	terminal of a battery t	o the	
	terminal.		
<b>3.</b> An electric circuit contains at le transforms energy.	east one electric		that
<b>a.</b> Within a battery,	ener	gy transforms into	
	energy of moving elec	trons.	
<b>b.</b> When the electrons flowing			
atoms that make up the con		ransfer some of their	
	energy to the atoms.		
<b>4.</b> An electric circuit contains components.		that connect its	
<b>a.</b> Wires that connect compone electric resistance.	ents of a circuit have _		
<b>b.</b> Only a small amount of elec	tric energy is transform	ned into	
		n means that more e	nergy is
available for useful devices in	n the circuit.		
<b>B.</b> Series and Parallel Circuits			
<b>1.</b> A(n) closed path for an electric curre		circuit that has only	v one
<b>a.</b> Because there is only one pat	h, when a series circuit	is	,
all	turn off.		

Name Date Class Lesson Outline continued **b.** Adding devices to a series circuit adds \_\_\_\_\_\_ to the circuit and \_\_\_\_\_\_ the current in the circuit. \_\_\_\_\_ circuit is an electric circuit that has more than one **2.** A(n) \_\_\_\_\_ closed path for an electric current to follow. **a.** Most circuits in homes are \_\_\_\_\_\_ circuits. **b.** In a parallel circuit, each \_\_\_\_\_\_ has its own path, or \_\_\_\_\_, that connects it to the source. **c.** If you \_\_\_\_\_\_ one branch of a parallel circuit, current continues through other branches. **d.** Adding devices and branches to a parallel circuit \_\_\_\_\_\_ the total electric current through the \_\_\_\_\_. **C.** Electric Circuits in the Home **1.** Electric energy is generated at large \_\_\_\_\_\_. **2.** Before entering your house through a main \_\_\_\_\_, the main wire passes through a(n) \_\_\_\_\_\_, which measures the \_\_\_\_\_ used in your home. **3.** \_\_\_\_\_\_ and circuit \_\_\_\_\_\_ are safety devices that keep the \_\_\_\_\_\_ in a circuit from becoming too high. \_\_\_\_\_ is a safety device in an electric outlet that opens a **4.** A(n) \_\_\_\_\_ circuit to stop current flow, which can help protect you from electric \_\_\_\_\_\_. **D.** Electric Safety **1.** An electric shock occurs when a(n) \_\_\_\_\_\_ passes through the \_\_\_\_\_. 2. Ways to protect yourself from electric shock include staying away from \_\_\_\_\_ while using electric devices, avoiding using \_\_\_\_\_ cords, and not contacting electric power \_\_\_\_\_.