

## **Understanding Electricity and Electrical Safety**

## Pre/Post Test

Di	rections: Circle the correct answer.				
1.	Why is it so dangerous to touch a power line? a) you might set off alarms b) the voltage is strong enough to injure or kill y		c) you will stop the electrical flow d) the power line will blow up		
<i>2</i> .	A complete circuit is a) a straight path for electricity b) when the flow of electricity is stopped	d) like a circ	two parallel paths for electricity like a circle where the electricity travels along a path that takes it back to where it started		
3.	Why should you never experiment with the el a) you might damage a nearby power plant b) you might break the outlet				
4.	Two examples of good conductors are a) metal and water b) plastic and rubber	r c) wate	er and glass	d) air and plastic	
5.	An insulator is a) something that electricity can easily mov b) something that does <u>not</u> allow electricity through			special type of metal varm water	
6.	Why is a short circuit dangerous? a) more electricity flows through it b) the electricity moves faster	•	he wires are too short t could cause a fire		
<b>7</b> .	True or false? Fuses and circuit breakers protect our home electrical systems by turning off the power when a circuit gets too hot.  a) True  b) False				
8.	Which of the following is an example of a dana) electric cords with bare wire showing b) overloaded outlets	c) elect	erous electrical situation in a home? c) electrical cords running under furniture d) all of the above		
9.	An electromagnet is a) a giant magnet b) a very strong electrical particle	d) whe	strong electron when electricity travels through a piece of netal, and it becomes magnetized		

a) our bodies conduct electricity

10. Why is it important to be careful around electricity?

b) you might get shocked or electrocuted

c) you could be seriously injured or killed

d) a, b, and c

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## Answer Key

Information that relates to each question can be found on the pages listed below.

- 1. b) the voltage is strong enough to injure or kill you. Page 4
- 2. d) like a circle where the electricity travels along a path that takes it back to where it started. Page 5
- 3. c) you might be seriously injured or killed. Page 6
- 4. a) metal and water. Page 7
- 5. b) something that does not allow electricity to easily pass through. Page 7
- 6. d) it could cause a fire. Page 9
- 7. a) True. Fuses and circuit breakers protect our home electrical systems by turning off the power when a circuit gets too hot. Page 13
- 8. d) all of the above. Page 15
- 9. d) when electricity travels through a piece of metal and it becomes magnetized. Page 12
- 10. d) a, b, and c. Page 4, 6, and 7