

Experiments to Explore Electricity

Pre/Post Test

_		
Dir	ections: 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 you	c) you will stop the electrical flow d) the power line will blow up
2.	A complete circuit is a) a straight path for electricity b) two parallel paths for electricity c) when the flow of electricity is stopped d) 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 electricity a) you might damage a nearby power plant b) you might break the outlet	ty that comes from a wall outlet? c) you might be seriously injured or killed d) the current is too weak
1.	Two examples of good conductors are a) metal and water b) plastic and rubber	c) water and glass d) air and plastic
5.	An insulator is a) something that electricity can easily move throub) something that does <u>not</u> allow electricity to easily	
5.	Why is a short circuit dangerous? a) more electricity flows through it b) the electricity moves faster	c) the wires are too short d) it could cause a fire
7.	True or false? Fuses and circuit breakers protect our when a circuit gets too hot. a) True	home electrical systems by turning off the power b) False
3.	Which of the following is an example of a dangerou a) electric cords with bare wire showing b) overloaded outlets	s 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 electric d) when electricity travels through a piece of meta	
10.	Why is it important to be careful around electricity? a) our bodies conduct electricity	c) you could be seriously injured or killed

b) you might get shocked or electrocuted

d) a, b, and c

Experiments to Explore Electricity

Pre/Post Test 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 5
- 2. d) like a circle where the electricity travels along a path that takes it back to where it started. Page 6
- 3. c) you might be seriously injured or killed. Page 7
- 4. a) metal and water. Page 8
- 5. b) something that does not allow electricity to easily pass through. Page 8
- 6. d) it could cause a fire. Page 10
- 7. a) True. Fuses and circuit breakers protect our home electrical systems by turning off the power when a circuit gets too hot. Page 14
- 8. d) all of the above. Page 16
- 9. d) when electricity travels through a piece of metal, and it becomes magnetized. Page 13
- 10. d) a, b, and c. Page 5, 7 and 8