



## It's a Wired World

### Pre/Post Test

Directions: Circle the correct answer.

- Which of these describes the correct path electricity takes to get to homes?
  - generating plant, transmission lines, substation, distribution lines
  - distribution lines, transmission lines, generating plant, substation
  - generating plant, substation, distribution lines, transmission lines
  - substation, distribution lines, generating plant, transmission lines
- You should never experiment with household electricity because
  - you might damage a nearby power plant
  - you might waste electricity
  - you might be seriously hurt or killed
  - the current is too weak
- Almost anything can become a conductor of electricity if it is
  - rubberized
  - encased in glass
  - wet
  - hot
- Electrocution means
  - fatal contact with electricity
  - when the flow of electricity is cut off
  - mild shock
  - when a fire begins
- A short circuit is dangerous because
  - the wires are too short
  - people can get shocked or killed
  - it can cause a fire
  - both b and c
- A circuit stays on if the electricity flows in a
  - circuit breaker
  - continuous circle
  - electrical panel
  - straight path
- Why are overloaded outlets dangerous?
  - you might trip over the wires
  - they might ruin your appliance
  - they are a fire hazard
  - they waste energy
- Never enter a substation because
  - you might block the electrical flow
  - the air is too hot
  - you will set off alarms
  - you might get shocked or electrocuted
- Some effects of electrical shock on the human body may be
  - burn
  - pain
  - death
  - a, b, and c
- If there is an electrical fire you should
  - call 911
  - tell an adult who may use a proper chemical fire extinguisher
  - spray it with water
  - a and b only

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## **Answer Key**

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

1. a) generating plant, transmission lines, substation, distribution lines. Page 2
2. c) you might be seriously hurt or killed. Page 3.
3. c) wet. Page 5.
4. a) fatal contact with electricity. Page 5.
5. d) both b and c. Page 7.
6. b) continuous circle. Page 9.
7. c) they are a fire hazard. Page 10.
8. d) you might get shocked or electrocuted. Page 11.
9. d) a, b, and c. Page 12.
10. d) a and b only. Page 13.