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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.