



Science & Safety of Electricity, Water & Natural Gas

Pre/Post Test

Directions: Circle the correct answer or fill in the blank.

- How can you stay safe while enjoying water sports in PG&E reservoirs?
 - wear a U.S. Coast Guard-approved life jacket when boating
 - swim only in marked areas with adult supervision
 - check the water temperature before you go in
 - a, b, and c
- Why is it important to call your local utility before digging in the ground near your home?
 - to avoid hitting underground utilities
 - to find out what to do with the dirt
 - to ask what shovel to use
 - to get a treasure map from them
- When you work or play outdoors, be sure to keep yourself and your tools at least _____ feet away from all overhead power lines.
- If you see a power line that has fallen, what should you do?
 - ignore it
 - draw a picture of it.
 - keep it a secret
 - stay away and call 911
- Because electricity travels easily through water, do not use _____ tablets, phones, laptops or other electric devices near a swimming pool or wet area.
- Natural gas, a mixture of methane and other gases, has no odor. Mercaptan, a chemical that smells like _____ is added, so you can easily detect a gas leak in your home.
- If you suspect a natural gas leak, get everyone out of the house. Don't use a light switch, candle, flashlight or telephone because a spark might cause the gas to
 - ignite
 - get away
 - smell worse
 - dissolve
- Which of these is not a hazard?
 - worn or frayed power cords
 - flammable liquids stored near gas appliances
 - overloaded outlets
 - an appliance used near water with a GFCI
- If you see lightning or hear thunder and can't get indoors, you are safest
 - under a tree
 - in a metal top car with doors and windows shut
 - swimming in a lake
 - out in the open
- Which of the following can happen when trees grow too close to power lines?
 - fires, power outages and shock hazards
 - power surges
 - lightning strikes
 - none of the above

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Answer Key

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

1. a, b and c. Page 5
2. a) to avoid hitting underground utilities. Pages 8 and 16 (back cover)
3. 10. Page 8
4. d) stay away and report it to your local electric utility and 911. Page 8
5. plugged-in. Page 4
6. rotten eggs. Page 10
7. a) ignite. Page 10
8. d) an appliance used near water with a GFCI. Pages 12 and 13
9. b) in a metal top car with doors and windows shut. Page 14
10. a) fires, power outages and shock hazards. Page 16 (back cover)