

Name: _____ Date: _____

Answer Key: Zap the Hazards: 4th Grade Lab Safety Ace Quiz

Students solve 10 safety scenarios by identifying proper gear and emergency protocols to maintain a secure science classroom.

1. Maya is about to start an experiment using vinegar and baking soda. What should she do with her long hair before beginning?

Answer: B) Tie it back securely with a hair tie

Long hair must be tied back to prevent it from falling into chemicals or catching fire from a heat source.

2. If you accidentally spill a small amount of water on the lab table, you should tell the teacher immediately.

Answer: A) True

All accidents, no matter how small, must be reported so the teacher can ensure they are cleaned up safely.

3. To protect your _____ from splashes or flying debris, you must always wear safety goggles during an experiment.

Answer: C) Eyes

Goggles provide a seal around the eyes to protect them from liquid splashes and solid particles.

4. Which of these is the safest way to behave while moving around the science lab?

Answer: B) Walking slowly and carefully

Walking carefully prevents trips and collisions that could lead to broken glass or chemical spills.

5. It is okay to taste a substance in the lab if it looks like common table salt.

Answer: B) False

You should never taste or eat anything in a science lab because many chemicals are poisonous or harmful.

6. Before leaving the science lab, students must always _____ their hands with soap and water.

Answer: A) Wash

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Washing hands removes any invisible chemical residue or germs collected during the experiment.

7. What should you do if you notice a crack in a glass beaker you are about to use?

Answer: C) Tell the teacher and get a new one

Damaged glassware can break completely when heated or filled, so it should be replaced immediately.

8. When you want to know what a substance smells like, you should use your hand to _____ the scent toward your nose.

Answer: B) Waft

Wafting (waving the air toward you) is safer than sniffing directly, which can irritate your lungs.

9. Sandals and flip-flops are the best shoes to wear during a science lab.

Answer: B) False

Closed-toe shoes are required to protect feet from falling objects or spilled liquids.

10. Where should you look to find the instructions for your science experiment?

Answer: C) Wait for the teacher to finish speaking and read the lab sheet

Following written and verbal directions is the most important rule to ensure every step is done safely.