

Name: _____ Date: _____

Hazard Hero: Prove You Can Manage a 6th Grade Science Lab

Navigate high-stakes scenarios from chemical containment to electrical safety to ensure your research team stays safe and your experiments succeed.

1. You notice a small crack in a glass graduated cylinder before beginning a high-heat experiment. What is the most scientifically sound action to take?

- A. Use it anyway, as long as it isn't leaking yet.
- B. Apply heat-resistant tape to the crack and continue.
- C. Alert the instructor and dispose of it in a designated glass container.
- D. Wash it thoroughly with cold water to see if the crack expands.

2. When diluting a concentrated acid, you should always add the _____ slowly to the water, never the other way around, to prevent dangerous splashing.

- A. Solvent
- B. Acid
- C. Catalyst
- D. Base

3. If a student has long hair, it is acceptable to leave it down as long as they are working at least two feet away from a Bunsen burner.

- A. True
- B. False

4. While heating a substance in a test tube, in which direction should the mouth of the tube be pointed?

- A. Toward the person performing the experiment for observation.
- B. Toward a nearby window to allow fumes to escape.
- C. Toward the ceiling to prevent spills on the table.
- D. Away from yourself and all other people in the lab.

5. To properly identify the odor of a chemical without inhaling dangerous concentrations, a scientist should use a technique called _____.

- A. Siphoning
- B. Wafting
- C. Drafting
- D. Ventilating

6. Chemicals that look like common table salt or sugar are safe to taste in the lab as long as the containers are new.

- A. True
- B. False

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7. Which piece of safety equipment is most appropriate if a classmate accidentally knocks over a beaker of corrosive liquid onto their arm?

- A. The fire blanket
- B. The fume hood
- C. The safety shower
- D. The first aid kit

8. A Safety Data Sheet (SDS) provides information about a chemical's properties, hazards, and _____.

- A. Price per gram
- B. Date of discovery
- C. Molecular weight
- D. Handling and storage

9. If an electrical piece of equipment begins to smoke or smell like it is burning, what should be your first priority?

- A. Pour water on the device to cool it down.
- B. Unplug it immediately if safe, and notify the teacher.
- C. Wait for the circuit breaker to trip automatically.
- D. Open all laboratory windows to clear the smoke.

10. Safety goggles only need to be worn when you are personally handling chemicals, not when you are just watching a demonstration.

- A. True
- B. False