Name	
Date	

Handling Chemicals Safely Questions

- 1. When you read the label on a chemical container, what are the three most important pieces of information?
- 2. How many times should you read this information before you open the container?
- 3. Is it important to be exact when preparing a chemical reaction? Explain.
- 4. What should you do with leftover chemicals after an experiment? What should you do with the products of an experiment?
- 5. How can you draw small volumes of liquids into a pipette safely?
- 6. Why is it important to read instructions all the way through before beginning an experiment?
- 7. When you need to carry chemicals from one place to another in the lab, what size container is the safest to use?
- 8. If you spill a liquid chemical, what should you do?
- 9. Should you add acid to water, or water to acid?

Bunsen Burner and Glassware Safety Questions

- 1. Before hooking a Bunsen burner to the gas line, what should you look for?
- 2. How quickly should you turn on the gas?
- 3. When you use a striker, where should you stand?
- 4. If your flame sputters or goes out, what should you do?
- 5. If you smell gas in the room, what should you do?
- 6. Is it safe to heat a sealed container? Explain.

- 7. Is it safe to work near heated objects?
- 8. Is it safe to use glassware that has cracks or stars? Explain.
- 9. How can you safely carry a heated object?
- 10. Is it safe to heat flammable chemicals (e.g., gasoline) with a Bunsen burner?

Enermometer Safety

Questions

- Thermometers contain either alcohol or mercury to indicate temperature. Which substance (mercury or alcohol) creates toxic vapors when exposed to air?
- 2. If you break a mercury thermometer, what is the safe way to clean it up?
- 3. Before choosing a thermometer for a specific job, what should you know?

Glass Tubing Safety Questions

1. What is one of the most common causes of injury in the laboratory?

Dressing for Safety Questions

- 1. What type of shoes are appropriate for the lab?
- 2. Describe the type of clothing you should wear on days when you will be working in the lab.
- 3. How should you protect your eyes from chemicals and glass shards?
- 4. Why is it important to remove rings, watches, and contact lenses before working in the lab?
- 5. How can you protect your hands when working with corrosive chemicals?

Behavior in the Laboratory Questions

- 1. Is the laboratory a safe place to eat, drink, or put on makeup? Why or why not?
- 2. What is a safe way to read a burette that is above your eye level?
- 3. Where should you keep personal belongings that you bring to the lab?

Emergency Equipment

Questions

- 1. Name the pieces of safety equipment in your laboratory. Do you know where they are and how to use them?
- 2. How do you extinguish a small fire in a container? What should you do if you have a larger
- 3. How do you put out a clothing fire?

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