

Name \_\_\_\_\_

### **Handling Chemicals Safely**

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 opening the container?
3. What should you do with excess chemicals accidentally taken from a bottle?
4. What should you do with the products of an experiment?
5. Why is it important to read instructions all the way through before beginning an experiment?
6. If you spill a liquid chemical, what should you do?
7. Why is it important to wash containers before and after a lab?
8. Why should you wash your hands when leaving a chemical laboratory?

### **Bunsen Burner and Glassware Safety**

1. Before hooking a Bunsen burner to the gas line, what should you look for?
2. When should you turn on the gas to light a Bunsen burner?

3. If your flame sputters or goes out, what should you do?
4. If you smell gas in the room, what should you do?
5. Why is it unsafe to heat a sealed container?
6. How do you check if an object is hot?
7. Why is it unsafe to use glassware that has cracks or stars?
8. How can you safely carry a heated object?

### **Thermometer Safety**

1. Thermometers contain either alcohol or mercury to indicate temperature. Which of these substance creates toxic vapors when exposed to the air?
2. If you break a mercury thermometer, what is the safe way to clean it up?
3. What happens if thermometers are placed in too hot of an environment (e.g. fire)?
4. Before choosing a thermometer for a specific job, what should you know?

### **Glass Tubing Safety**

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

## **Dressing for Safety**

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 a 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**

1. Why is it unsafe to eat or drink in the laboratory?
2. Why is it unsafe to put on makeup in the laboratory?
3. What is the safe way to read a burette that is above your eye level?
4. Where should you keep personal belongings that you bring into the lab?

## **Emergency Equipment**

1. What should you do if you cut yourself?
2. How do you use an eyewash?
3. How do you extinguish a small fire in a container?
4. What should you do you if you have a large fire?
5. How do you put out a clothing fire?