

# LESSON

# 1

# ACTIVITY

## Tools of the Trade

### Lab Equipment and Safety

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

### Purpose

To learn about some of the many different laboratory tools chem-ists use and to learn the layout of your lab and the location of safety equipment.

### Part 1: Map Your Classroom

1. Draw a simple diagram of your lab room, showing the desks and storage areas. Be sure to label any exit doors.
2. Locate the safety equipment listed here in your lab and label each item on your diagram.

fire blanket	first aid kit	fire extinguisher	aprons/lab coats
eye wash	shower	goggles	fume hood

### Part 2: Scavenger Hunt

Each group member will search for one of the four items listed under the appropriate letter below. If your group does not have four people, divide the items to suit the group. Work slowly and carefully. After you find your items, follow these steps:

- a. Label the location of the item on your diagram.
- b. Bring an example of the item and the explanation card back to your desk.
- c. Read the card to your group. Translate it into plain and simple language if necessary.
- d. Prepare to explain to the class the proper use of the four tools your group gathered.

#### List A

test tube  
test tube rack  
test tube holder  
test tube brush

#### List B

watch glass  
balance (or scale)  
spatula  
weighing paper

#### List C

Erlenmeyer flask  
burette  
magnetic stirrer  
pipette and bulb

#### List D

wash bottle  
filter paper  
funnel  
500 mL beaker

#### List E

hot plate  
boiling stones  
stirring rod  
beaker

#### List F

utility clamp  
crucible  
clay triangle  
tongs

#### List G

thermometer  
graduated cylinder  
litmus paper or pH paper  
tubing

#### List H

Bunsen burner  
striker  
wire gauze  
ring stand

3. **If You Finish Early** Are any pieces of equipment in your lab not mentioned here? If so, what are they and what is their purpose?