

# Laboratory Safety

NAME \_\_\_\_\_

CLASS \_\_\_\_\_ DATE \_\_\_\_\_

## PRELAB QUESTIONS

1. What types of student conduct are appropriate in the lab environment? List at least five types. \_\_\_\_\_

\_\_\_\_\_

2. What types of student conduct are inappropriate and dangerous in the lab environment? \_\_\_\_\_

\_\_\_\_\_

3. Where in the lab environment is it safe to eat your lunch? Explain. \_\_\_\_\_

\_\_\_\_\_

4. When should safety goggles be worn? \_\_\_\_\_

\_\_\_\_\_

5. List five safety precautions for using a lab burner or hot plate.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

e. \_\_\_\_\_

6. What kind of glassware can be used for heating chemicals? \_\_\_\_\_

\_\_\_\_\_

7. What is the proper way to dilute acid with water? \_\_\_\_\_

\_\_\_\_\_

8. Before using electrical equipment, what safety checks should you perform? \_\_\_\_\_

\_\_\_\_\_

9. Why is it important to know the names and appearance of lab equipment before doing laboratory work? \_\_\_\_\_

\_\_\_\_\_

10. Can two test tube holders be used to move a beaker full of hot water if beaker tongs are not available? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

11. What is the best way to avoid accidents? \_\_\_\_\_

- ☒ 12. Make a map of your science laboratory showing the location of the following: fire extinguishers, fire blanket, sand, safety shower, eyewash fountain, first-aid kit, exits.

[omit]

- ☒ 13. Read the Student Safety Contract. Fill in your name in the first blank. Then fill in the date and sign it.

I will:

- Follow all instructions given by the teacher.
- Protect eyes, face, hands, and body while conducting class activities.
- Carry out good housekeeping practices.
- Know the location of first-aid and fire-fighting equipment.
- Conduct myself in a responsible manner at all times in a laboratory situation.

I, \_\_\_\_\_

have read and agree to abide by the safety regulations as set forth above and also any additional printed instructions provided by the teacher and/or school district. I further agree to follow all other written and oral instructions given in class.

Date \_\_\_\_\_ Signature \_\_\_\_\_

13. A student's puffy sleeve catches fire as she reaches across the lab burner to turn off the gas. What actions should she take to deal with this emergency? Explain how this accident could have been prevented. \_\_\_\_\_

14. A student is heating a substance in a test tube when suddenly some of the substance splashes into his eye. How should he handle this situation? What precautions should the student have taken? \_\_\_\_\_

15. A student sees a beaker he needs lying on the table. He picks it up, only to find that it is hot. He suffers a painful burn. Who is at fault? Whom should he inform? \_\_\_\_\_