

# Safety in the Laboratory

1. Using the word list provided, complete the basic safety rules shown below.

**instructions - eat - shoes - tell - hands - ask - taste  
enter - safety glasses - mat - report - drink - sniff**

- (a) You must follow the \_\_\_\_\_ given to you by your teacher.
- (b) You must not \_\_\_\_\_ the laboratory without your teacher.
- (c) \_\_\_\_\_ all breakages to your teacher.
- (d) \_\_\_\_\_ must be worn at all times when carrying out practical activities.
- (e) To avoid poisoning yourself, you must never \_\_\_\_\_ or \_\_\_\_\_ in the laboratory.
- (f) \_\_\_\_\_ must be worn at all times.
- (g) If you spill something, either on yourself or on a bench top, you should \_\_\_\_\_ your teacher immediately.
- (h) You should wash your \_\_\_\_\_ after every practical activity.
- (i) A heatproof \_\_\_\_\_ should be used to prevent burning the bench tops.
- (j) Most importantly, you should know what you are doing. If in doubt \_\_\_\_\_ your teacher.
- (k) Never \_\_\_\_\_ or \_\_\_\_\_ chemicals.

2. Briefly explain how the following scenarios can lead to accidents in the laboratory:

- (a) Not putting your bag under the workbench or desk. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- (b) Running around in the laboratory. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- (c) Not tying your hair up. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- (d) Shaking a test tube with your thumb over its mouth. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- (e) Entering the laboratory without your shoes on. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Identifying Hazardous Materials in the Laboratory

The laboratory is an exciting place and unlike any other classroom in the school. You will come in contact with a number of chemical substances this year and it is important that you are able to recognise how dangerous some of these chemicals are.

Scientists use an internationally recognised system of identifying hazardous materials, called HAZCHEM symbols.

1. Using the word list provided, identify the meaning of the following HAZCHEM symbols.

**Electrical Hazard - May Cause Cancer - Toxic - Irritant - Caution - Explosive  
Corrosive - Ecotoxic - Oxidant - Wear Eye Protection - Flammable - Harmful**



(a) \_\_\_\_\_



(b) \_\_\_\_\_



(c) \_\_\_\_\_



(d) \_\_\_\_\_



(e) \_\_\_\_\_



(f) \_\_\_\_\_



(g) \_\_\_\_\_



(h) \_\_\_\_\_



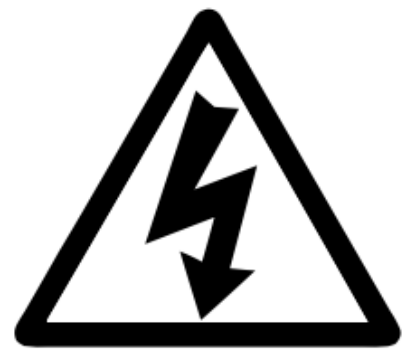
(i) \_\_\_\_\_



(j) \_\_\_\_\_



(k) \_\_\_\_\_

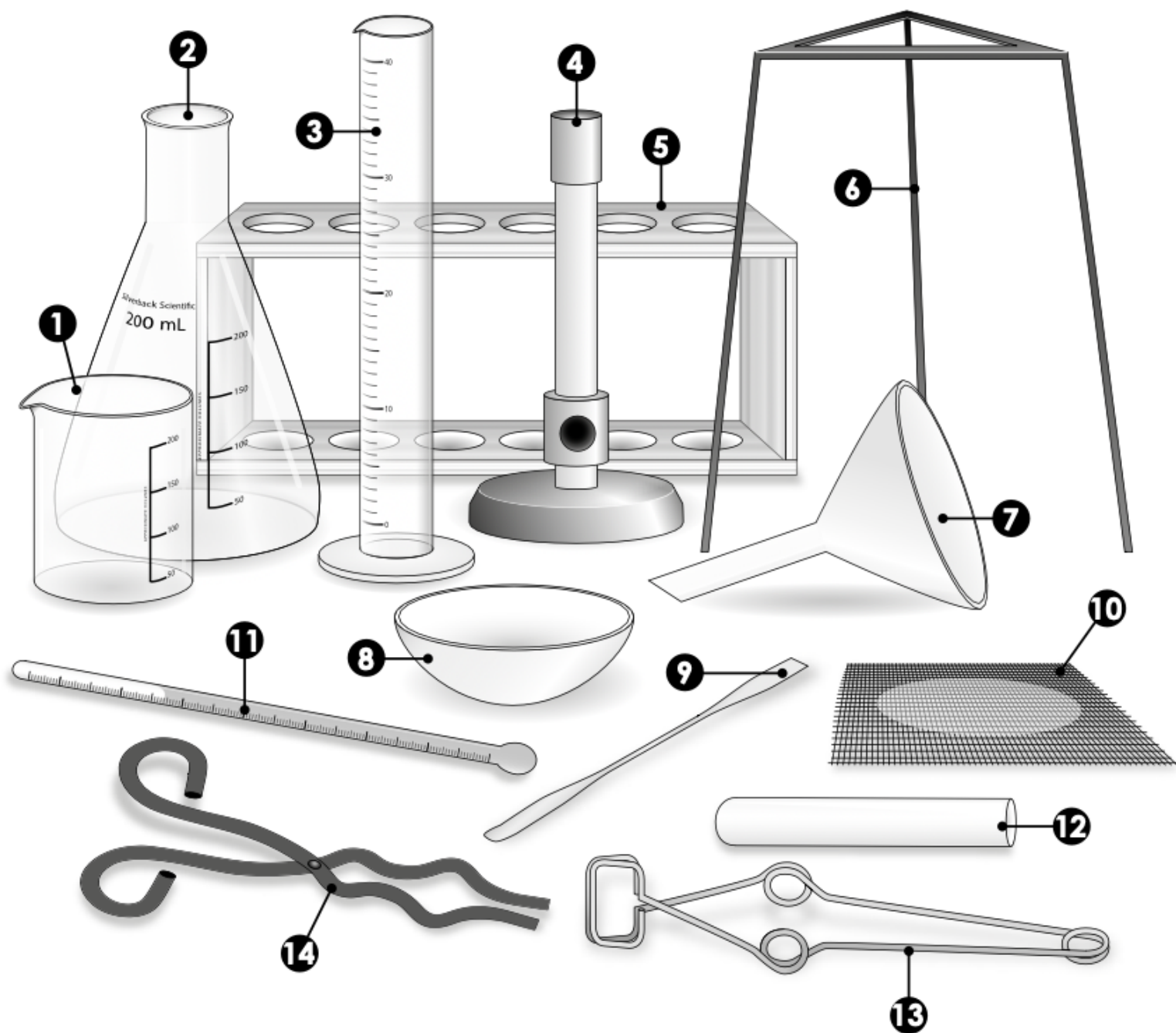


(l) \_\_\_\_\_

# Laboratory Equipment

1. Use the word list provided to identify the laboratory equipment shown below.

**Test tube - funnel - evaporating basin - tripod - thermometer - spatula  
measuring cylinder - beaker - scissor tongs - conical flask  
gauze mat - test tube tongs - Bunsen burner - test tube rack**



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_