Symbol Shapes

 Colour: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Colour: \_\_\_\_\_\_\_\_\_\_\_\_\_

 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ v Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_



 Colour: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Common Hazard Warnings





 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



 Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

WHMIS:



Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_









Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Lab Safety Rules Review

(Student book page 95) 

Safety is paramount in a science laboratory. Use these review questions to ensure that you completely understand what is expected of you.

 1. If you place chemicals into a container, what should you do to the container?

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 2. What does the acronym WHMIS stand for?

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 3. How should you go about detecting the odour of a substance?

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 4. What should you do with long, loose hair and sleeves?

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 5. What should you do after handling any chemicals?

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 6. What should you do with cracked or broken glassware?

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| UNIT B—MATTER AND CHEMICAL CHANGE  |

# Answers to Lab Safety Rules Review

 1. Close containers immediately after using them.

 2. Workplace Hazardous Materials Information System

 3. Never smell any substance directly. Instead, gently wave your hand over it to bring its vapours toward your nose.

 4. Tie back long, loose hair. Roll up long sleeves.

 5. Always wash hands well with soap, preferably liquid soap.

 6. Handle all glassware carefully. Ask the teacher how to dispose of broken glass properly.

Check and Reflect (page 96)

**1. Why is it important for all students to follow the safety rules while in a science class?**

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**2. Why is there a need for a WHMIS program?**

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**3. On area of special consideration for people working in a lab is understanding warning labels. What is the other special consideration?**

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1. **What does each hazard warning label mean on the chemicals shown on the following cans?**



 a b c d

**a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **What type of WHMIS symbols would you expect to see on the following containers?**

**a. a can of gasoline: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**b. a tub of caustic cleaning chemical: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **a bottle of oxygen gas: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **a bottle of sulfuric acid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. Explain the difference between WHMIS symbols and safety symbols used on commercial products.**

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**7. List the steps a student should take before starting a science activity where safety is an issue.**

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**8. Describe one problem that may occur with having different coloured safety symbols.**

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**9. What additional lab safety rules would you add to the list on page 95?**

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