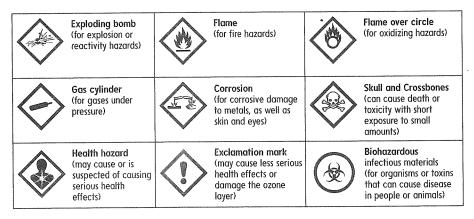
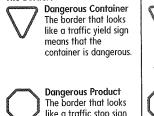
Science Safety Symbols

Use with textbook pages xv and 97-101.

In 2015, Canada updated its method of identifying dangerous materials in the workplace. The new **Workplace Hazardous Materials Information System** (WHMIS) closely follows the United Nations' labelling system called the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Each chemical also has a Safety Data Sheet (SDS) that gives more detailed information on how the chemical reacts, how it should be stored, and what to do if an accident occurs.



Canada also uses the **Hazardous Household Products Symbols** (HHPS) for items you would use in your home such as hair spray, oven cleaner, and bleach. It was also updated and simplified from the old HHPS system.

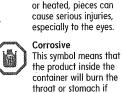


means that the contents

of the container are

dangerous.

The Borders



Explosive

This symbol means that

explode. If it is punctured

swallowed and will burn

skin or eyes on contact.

the container can

The Hazards

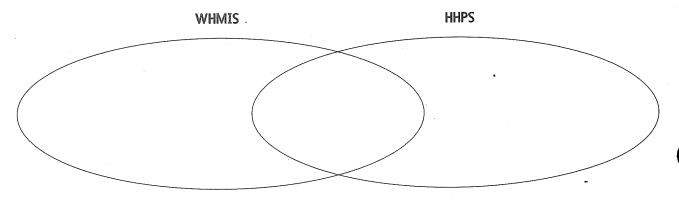


Flammable
This symbol means that
the product will catch on fire
easily if it is near sparks, flames,
or even heat.



Poisonous
This symbol means that the product will cause illness or death if you eat or drink it. For some products, just smelling or licking them is enough to cause serious harm.

Draw a WHMIS and HHPS Venn Diagram to compare and contrast the two systems.



Safety Observations

Use with textbook pages xiv-xvii.

There are many safety problems in the science lab shown below. Highlight as many as you can.



Choose six of the problems you understand the best and number them 1 to 6 on the diagram. For each of the 6 problems, describe what the safety problem is, why it is a problem, and what should be done to fix it.

What is the Problem?	Why is it a Problem?	How to Fix the Problem
1.		
2.		
3.		
4.		
5.		
6.		

How Safe Am I?

Use with textbook pages xiv-xvii.

Each of the following situations could happen in a science classroom.

- 1. Someone sneezed just as your teacher was telling you about a lab chemical. You read the label, but it was old and partially worn off.
 - a) Draw the WHMIS symbols that should be on the label.

Phenolphthalein solution

Avoid contact with eyes and lungs. Will cause irritation of respiratory tract. Reproductive toxin. If swallowed, contact doctor immediately. Flammable near an open flame.

)	If you accidentally spill this chemical on your hand, what should you do?
	•
Tw	o classmates at your lab station are putting on lipstick and eye shadow.
	vo classmates at your lab station are putting on lipstick and eye shadow.
	Is this a safety concern for the class? Explain.
	•

3.	You arrive late to the lab and missed both the lab demonstration and safety talk. Your lab partner is absent and your science binder is in the art class. Since you were the last person to pick up equipment, you were left with two chipped beakers and a broken hot plate.		
	a)	Are you a safety concern for the class? Explain.	
		· · · · · · · · · · · · · · · · · · ·	
	b)	What 2 things should you do immediately?	
	c)	What 3 things should you do for future labs?	
4.	Но	t water is about to boil over on your neighbour's hot plate.	
	a)	Is this a safety concern for the class? Explain.	
	b)	What should you do and why?	
		,	