

Worksheet: Some Laboratory Hazards

While we all try to be careful, accidents do happen. **How** we deal with it often determines how successfully we overcome it. Read about the hazard below then discuss it with your group. Once you've decided on the key ideas, write down your plan.

	HAZARD	HOW TO DEAL WITH HAZARD
1.	Spilled chemicals on your lab bench	
2.	Broken beaker on the floor	
3.	Burning chemicals in a container	
4.	Smelling chemical vapours	
5.	Bunsen burners	
7.	Chemicals on hands	
8.	Disposal of used chemicals	

Questions: answer these *in your notebook*. You won't know all the answers until we have had a chance to go over them, but try your best!

1. With your group, come up with a list of practical rules for lab safety. Each group member will choose one rule and make an 8.5 x 11 poster highlighting that rule. See page 15 for details.
2. Why is the office emergency number **not** 911? Why **8**11?
3. Describe, *realistically*, what would happen if someone's clothing caught on fire.
4. If you are asked to leave the classroom, to where do you report? What do you do when you get there? How long do you stay there?
5. Which piece of emergency equipment do you think might get used most often? Why?
6. Describe the different applications of the fire extinguisher versus the fire blanket.
7. Describe the steps involved in dealing with a student who has splashed chemicals in his eye.

WHMIS SAFETY SYMBOLS


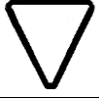




Throughout Canada, standard symbols are used to identify dangerous materials. These symbols provide warnings about possible hazards of using a product, and the necessary precautions to take when using it.

The Workplace Hazardous Materials Information System (**WHMIS**) has produced symbols for such work places as science laboratories. These are known as WHMIS symbols.

WHMIS Symbol	Meaning of Symbol	Precautions
		
		
		
		
		
		

Other symbols are also in use in Canada. **Hazard Symbols (HHPS)** were developed for people buying and using household materials.

Symbol	Meaning	Description & Precautions
	Dangerous contents	
	Dangerous container	
	Explosive	
	Toxic	
	Corrosive	
	Flammable	

HOUSEHOLD HAZARD HUNT!

Look around your house for household products that have risks (often cleaning materials or containers out in your garage!)

- Look for symbols that are HHPS.
- Read the labels to find out how each product is used and decide why it has an HHPS.
- Complete the chart below.

Hazard Symbol	How Product Used	Suggested Precautions

Classroom Safety

Use the following table to take notes during your teacher-led lesson on classroom safety. Make sure you listen! If you miss writing something down, one of your classmates will happily fill you in!

WHAT	WHERE, WHEN, WHY, HOW?
Safety glasses	
Hair tied	
Appropriate clothing	
Food	
Broken glass	
cuts	
Spilled chemicals (not on student)	
Spilled chemicals on clothing	
Emergency people/number	
Meeting area	

Eye wash station	
Spill control kit	
Fire (lab)	
Fire (person)	
HOT PLATES, ETC	

ADDITIONAL NOTES:

Safety Poster

Although you have brainstormed a number of safety rules with your group, you are going to personally choose one to make poster to hand in. You will find the “poster sized paper” at the front of the room.

Before beginning your poster, make sure you read through the marking rubric below so that you ensure you’ve included all the ideas you need to get the highest mark you can!





When your poster is done, fill in your name and block on the Safety Poster Rubric below and cut on the dotted line. Borrow a glue stick or some tape and attach the Rubric to the back of your poster.



Name: _____

Block: _____

Safety Poster Rubric

	Beginner 	Developing 	Accomplished 	Excelling 
Other	<ul style="list-style-type: none"> Missing all excelling criteria <p>Rubric not glued onto back</p>	<ul style="list-style-type: none"> Missing two of the excelling criteria Rubric glued onto back but does not include name or block 	<ul style="list-style-type: none"> Missing one of the excelling criteria Rubric glued onto back & includes name <u>OR</u> block 	<ul style="list-style-type: none"> Can be seen at least 3 m away Good balance between illustration and rule Rubric glued onto back & includes name and block
Safety Rule	<ul style="list-style-type: none"> Poorly chosen rule Poster doesn't represent the rule 	<ul style="list-style-type: none"> Chosen rule is appropriate Represents Rule to some degree 	<ul style="list-style-type: none"> Chosen rule is appropriate Wording clearly represents Rule 	<ul style="list-style-type: none"> Chosen rule is appropriate Clear, catchy and easy to remember Represents Rule Perfectly
Illustration Represents Rule	<ul style="list-style-type: none"> Illustration does not reflect the rule 	<ul style="list-style-type: none"> Illustration somewhat reflects chosen rule 	<ul style="list-style-type: none"> Illustration reflects chosen rule 	<ul style="list-style-type: none"> Illustration accurately reflects rule
Creativity	<ul style="list-style-type: none"> Limited use of color and texture Little creative energy 	<ul style="list-style-type: none"> Some use of colour Contains a few original/creative touches 	<ul style="list-style-type: none"> Colourful some originality-takes off on other examples 	<ul style="list-style-type: none"> Colourful Draws attention Original/clever and creative