

Who is responsible for your safety in a science laboratory? You are! Everyone who shares the lab shares the responsibility as well as the risks. It is vitally important that you, and the people who are working with you, take safety information seriously and follow safety precautions precisely.

### Purpose

To review safety procedures and symbols in the science laboratory.

### Procedure

#### Part A: Mapping Your Classroom

1. Sketch a floor plan of your classroom.
2. On your floor plan, label the locations of all emergency exits and safety equipment available (ie fire blanket, broken glass container, eye wash, fire extinguisher, blood spill kit, ...).

#### Part B: General Safety Rules

3. Locate your copy of the "HPEDSB Science Classroom Lab Safety Rules." Hilite the rules that deal with eye protection, long hair and loose clothing, food and drink, unauthorized experiments, and Bunsen burner activities.

#### Part C: Safety Symbols/Information (P.513 of your text)

4. Copy each of the WHMIS symbols in Section 1 of the Skills References. Beside each symbol, write the hazard indicated.
5. What are the four common HHPS symbols? What are their meanings? What is the significance of the three shapes of hazard symbols?
6. Use the following link to find and print an MSDS sheet (1 page) for regular clorox bleach:  
<http://www.thecloroxcompany.com/products/msds>

#### Part D: Analyze & Evaluate

7. The diagram below shows two students performing an experiment in the lab. Find at least five safety errors that the students made.
8. The accident report below was filed by lab partners Rachelle and Murray after a number of students were injured as a result of their actions. Identify at least five errors that the students made and the possible consequences of their actions.

"We were dissolving salt crystals in a beaker of hot water and taking the temperature with a thermometer. We put on aprons but we took off our eye protection because the glasses kept steaming up. Murray's sleeve caught the thermometer and knocked the beaker over, splashing the hot water everywhere. The tip of the thermometer broke off, but it was hardly noticeable, so Rachelle put it back in the drawer. We didn't have a mop to cleanup the water on the floor, but the puddle will dry by itself eventually. Fortunately, we cleaned up the lab bench before the teacher saw us, so we didn't get into trouble. Unfortunately, Rachelle had missed breakfast and the cookie she was munching on got totally soaked on the lab bench."

