

- Choose the sensible alternative among the words in italics in the following safety rules, which apply to all laboratory activities. Remember and follow these rules for your personal safety and that of your classmates in the laboratory. Write any new word you meet in your indexed book.
- 1. Perform laboratory work only when your teacher is absent / present.
- **2.** Your concern for safety should begin even before the first activity. Always read and think about each laboratory assignment *after / before* starting.
- **3.** Know the location and use of *all / some* safety equipment in your laboratory. These should include the safety shower, eye wash, first-aid kit, fire extinguisher and blanket.
- **4.** Wear a laboratory *coat / skirt* or apron and protective glasses or goggles for all laboratory work. *Disposable / Leather* gloves must be worn when working with cultures. Wear *boots / shoes* (rather than sandals) and tie back *blonde / loose* hair.
- **5.** Clear your bench *bottom / top* of all unnecessary materials such as books and clothing before starting your work. Microbiology laboratory benches should be swabbed with a laboratory disinfectant before and after each *practical / theoretical* session.
- **6.** Check chemical labels *many times / twice* to make sure you have the correct substance. Some chemical formulas and names differ by only a letter or number. Pay attention to the *gamble / hazard* classifications shown on the label
- 7. Avoid unnecessary movement and gossip / talk in the laboratory.
- **8.** Never *smell / taste* laboratory materials. Gum, food, or drinks *should / should not* be brought into the laboratory. No hand-to-mouth operation should occur (e.g. chewing pencils, licking labels, mouth pipetting).
- **9.** Never *look / watch* directly down into a test tube; view the contents from the side. Never point the open end of a test toward yourself or your neighbour.
- 10. Any / No laboratory accident, however small, should be reported immediately to your teacher.
- 11. In case of a chemical spill on your skin or clothing *brush / rinse* the affected area with plenty of water. If the eyes are affected water-washing must begin immediately and continue for 10 to 15 *hours / minutes* or until professional assistance is obtained.
- **12.** Minor skin burns should be placed under *cold / hot*, running water.
- **13.** When discarding used chemicals, carefully follow the *information / instructions* provided.
- **14.** Return equipment, chemicals, aprons, and protective glasses to their designated *locations / seats*.
- **15.** Before leaving the laboratory, ensure that gas lines and water taps are *open / shut* off.
- **16.** If in doubt, answer / ask!

assignment: piece of work, task given to a person
to avoid: not to do
concern: interest, consideration
to discard: to throw away as useless
gum: chewing gum
neighbour: person working near you
plenty: a lot
to point: to direct
to return: to put back
spill: accidental pouring out
to view: to observe

Complete the table FIRST AID IN THE LABORATORY (AND AT HOME!) choosing the proper steps to take in case of laboratory accident among those listed in the SAFE RESPONSE BANK.

FIRST AID IN THE LABORATORY (AND AT HOME!)		
SITUATION	SAFE RESPONSE BANK	
Burns		
Cuts and bruises		
Fainting or collapse		
Fire		
Foreign matter in eyes		
Poisoning		
Severe bleeding		
<ol> <li>Spills, general</li> <li>Acid burns</li> <li>Base burns</li> </ol>		

## SAFE RESPONSE BANK

- Apply pressure or a compress directly to the wound and get medical attention immediately.
- Flush about 15 min with plenty of water, then go to the doctor.
- Flush with cold water.
- Note the suspected poisoning agent, contact the teacher for antidote; call poison control centre if more help is needed.
- Provide person with fresh air, have him/her recline in a position so that his head is lower than their body; if necessary, provide CPR¹.
- Treat as directed by instructions included with first aid kit.
- Turn off all flames and gas jets, wrap person in fire blanket; use fire extinguisher to put out fire. DO
   NOT use water to put out fire.
- 1. Wash area with plenty of water, use safety shower if needed.
  - 2. Use sodium hydrogen carbonate (baking soda)
  - 3. Use boric acid or vinegar.

<sup>1</sup> cardiopulmonary resuscitation.

3	Match the following terms used to describe the hazards of some chemicals with their meanings: carcinogen, corrosive, explosive, flammable, highly toxic, irritant, mutagen, volatile and copy adjectives and definitions in your indexed book.
a.	Easily vaporized from the liquid, or solid state:
b.	A substance that on immediate, prolonged, or repeated contact with normal tissue will induce a local
	inflammatory reaction:
c.	A substance that causes destruction of tissue by chemical action on contact:
d.	Agents or substances that when inhaled, absorbed or ingested in small amounts can cause death,
	disablement, or severe illness:
e.	Burns easily:
f.	An unstable substance capable of rapid and violent energy release:
g.	A substance capable of causing cancer or cancerous growths in mammals:
h.	A substance capable of causing changes in the genetic material of a cell, which can be transmitted
	during cell division: