



*An Inspired Education*

## **LAB SAFETY RULES**

### **General Safety Rules:**

- Read all directions for an experiment and follow the directions exactly as they are written. If in doubt, ask the teacher.
- Work quietly - know what you are doing by reading the assigned experiment before you start to work. Pay close attention to any cautions described in the laboratory exercises
- Never perform experiments that are not authorised by your teacher. Always obtain permission before experimenting on your own.
- Never handle any equipment unless you have specific permission.
- Take care not to spill any materials in the lab. If a spill occurs, ask your teacher immediately about the proper clean-up procedure.
- Dispose of all material according to the teacher's instructions. Never empty materials into the sink or rubbish bin.
- Never eat in the laboratory. Wash your hands before and after each experiment.
- Never horse play or run in the laboratory. This will earn you a zero and dismissal from the lab.
- Know the location and function of all laboratory safety equipment.

### **Laboratory Dress Code:**

- Always wear goggles anytime sharp instruments or chemicals are used in the laboratory.
- Always wear a lab coat when working with chemicals.
- Tie back long hair and loose clothing when performing laboratory experiments involving open flames or chemicals.
- Remove jewellery before lab activities.
- Always wear closed-toed shoes in the laboratory.

### **First Aid:**

- Report all accidents to the teacher immediately.
- Apply direct pressure to any severe cuts to stop the bleeding
- Know the location of the first aid kit
- Know the location and use of the fire blanket.

### **Heating and Fire Safety:**

- Always light the match first or have the flint ready before opening the gas tap for a Bunsen burner. Never leave a burner unattended.
- Never reach across an open flame.
- Point the opening of the test tube or flask away from you and others when being heated; chemicals can rapidly boil out of the container.
- Never heat a liquid in a closed container.
- Always use a clamp or tongs when handling hot containers.

**Chemical Safety:**

- Never touch, taste, or smell, any questionable chemicals in the laboratory without the teacher's permission.
- Only as instructed by the teacher, gently wave your hand over the opening of a container toward your nose. Do not inhale fumes directly from the container.
- Keep all lids to chemicals closed.
- Dispose of all chemicals as instructed by your teacher.
- Pour acids and bases over a sink in case of spillage.
- Never pour water into an acid, pour the acid into the water.
- Never eat or drink from any laboratory glassware.
- Never use chipped or broken glassware, cuts and scratches can occur.

**Electrical Safety:**

- Make sure electronic equipment is OFF when plugging or unplugging from an outlet.
- Make sure the work area for electrical equipment is clean and dry.
- Do not "daisy-chain" electrical power cords.
- Inspect power cords for cuts or abrasions that reveal bare copper wire.
- Be very aware of the location of power cords to avoid tripping and damage to persons.

**End of Laboratory activity rules:**

- Clean all laboratory equipment and return to their locations
- Unplug and store properly any electrical device.
- Wash your hands after every experiment.
- Extinguish all candles and burners and the conclusion of the lab activity.
- Turn off all gas lines to the Bunsen burners.

**Be safe, enjoy, and follow the lab rules!**

# LAB SAFETY SYMBOLS



Electrical Hazard



Combustible Materials



No Open Flames



Corrosive Materials



Flammable Symbol



Fire Extinguisher



Toxic Chemical Non-potable water



Environment Hazard



Eyewash Sign



Recycling Sign



Toxic Materials Sign



Explosive Materials Sign



Flammable Sign



Radioactive Sign



Biohazard Sign



Chemistry Hazard Label

## Safety equipment:

