

LABORATORY SAFETY MANUAL



★ PERSONAL SAFETY:

♻️ Wear a lab coat or apron when directed.

♻️ Wear safety goggles when directed.


♻️ Tie back loose hair whenever chemicals or open flames are being used.


♻️ Do not wear loose, baggy clothing or loose jewelry when working with chemicals or open flames.


♻️ Use heat resistant gloves when handling hot materials such as hot plates or hot glassware.

♻️ Use a clamp or tongs to pick up hot glassware & don't touch hot object with bare hands.

Chemical Safety


 **Do not inhale fumes directly. When instructed to smell a substance, wave or waft fumes toward your nose and inhale gently**


 **Dispose of all chemicals as instructed by teacher. To avoid contamination do not return chemicals to their original containers**

 **Be careful when working with chemicals such as acids or bases. Always pour them over the sink rather than over your work area**

 **When diluting an acid always add small amounts of Acid to Water.**


 **Never mix chemicals for the "fun of it."**


 **Use only the chemicals need for an investigation. Keep all lids closed when a chemical is not in use.**

 **Never makes chemicals together unless you are told to do so.**

Heating Safety-

 **Never heat a closed container**

 **Point test tubes or bottles that are being heated away from you and others. Chemicals can boil or splash out of the tube**

 **Only glassware that is thoroughly dry should be heated.**

 **Never leave a hotplate unattended.**


Electrical Safety-

 **Never handle electrical equipment with wet hands.**

 **Be sure your hands and your lab area are dry before using electrical equipment.**

 **Never poke anything into electrical outlets.**

 **Unplug cords by pulling the plug and not the cord.**


 **Turn off and unplug all electrical equipment as soon as you are finished using the equipment.**


Glassware Safety


 **Never force glass tubing into rubber stoppers**

 **Never place glassware near edges of your work surface.**


 **Never eat or drink out of lab glassware**

 **Hot glass does not look hot. Don't pick up any glassware that may have been heated without checking to see if it is hot first. Become familiar with the hazards of the apparatus and the operations involved.**

 **Check the condition of glassware before and after using it.**


 **Do not pick up broken glass with your bare hands.**

REMEMBER :

 Always wash your hand after handling chemicals, with soap and water.

 Never put anything in your mouth during lab experiment.

 During lab experiment, keep your hands away from your face.

 Tie back long hair and loose clothing when working near an open flame and roll up long sleeves.



PREPARED BY THE STUDENTS OF CHEMISTRY
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PATHARKANDI COLLEGE
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