

Lab Safety

Lancaster High School
Science Department Safety
Presentation

General Laboratory Procedures

1. Never “horse around” in the laboratory.
2. Never *play* with laboratory equipment or materials.
3. Always follow instructions and wait until you are told to begin before starting any investigation.

General Laboratory Procedures

4. Never eat, taste or touch anything in the laboratory. This includes food drinks, and gum as well as chemicals found in the laboratory.
5. Never carry out unassigned experiments.
6. Wear safety goggles, laboratory aprons, and gloves when instructed to do so.

General Laboratory Procedures

7. Keep all books and nonessential items away from work area.
8. Keep your work area clean. Dispose of waste materials in appropriate containers.
9. Report all injuries or accidents to your teacher immediately.
10. Never use broken or cracked glassware.

General Laboratory Procedures

11. Always wear shoes in the laboratory. Sandals are not suggested.
12. Tie back long hair and restrict any loose clothing.
13. Turn off any gas jets or electrically operated equipment when you have completed the laboratory investigation.
14. Wash your hands after every experiment.

Working With Fire or Heat

1. Whenever possible, use a hot plate for heating. Use a laboratory burner only when specifically instructed to do so.
2. Use test tube holders, tongs, or heavy gloves to handle hot items.
3. Do not put your face or hands over any boiling liquid.



Working With Fire or Heat

4. When heating chemicals or other materials, be sure the containers are made of heat-proof glass.
5. Never point a heated container at anyone. Be especially careful with heated test tubes.
6. Keep flammable materials away from heat sources.



Working With Fire or Heat

7. Turn off heat source as soon as you are finished with it. Do not move it until it has cooled. Leave a note to indicate that a hot plate has been recently used, since it is difficult to tell if the plate is still hot with out touching it.



Working With Acids and Bases

1. Acids and bases are very chemically active. When they are combined with water they may splatter, often landing on the hands or on the face of the person using the chemicals. To prevent this type of splattering, **always add acids and bases to water, NOT the other way around.**



Working With Acids and Bases

2. Should you get an acid or a base on your skin, flush the area with running water and notify your teacher immediately.



Working With Electrical Equipment

1. Be careful with electrical cords. Never leave them where someone might trip over them. Keep the cords away from heat and water.
2. Grasp the plug when disconnecting an electrical outlet. Do not pull on the cord.



Working With Electrical Equipment

3. Never touch cords or electrical outlets with wet hands.
4. Turn off all electrical equipment when an investigation is completed.



EAGLE SCIENCE  **Disposal Alert**



This symbol appears when care must be taken to dispose of materials properly.

EAGLE SCIENCE  **Biological Hazard**



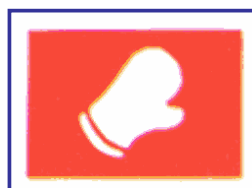
This symbol appears when there is a danger involving bacteria, fungi or protists.

EAGLE SCIENCE  **Open Flame Alert**



This symbol appears when use of an open flame could cause a fire or an explosion.

EAGLE SCIENCE  **Thermal Safety**



This symbol appears as a reminder to use caution when handling hot objects.

EAGLE SCIENCE  **Sharp Object Safety**



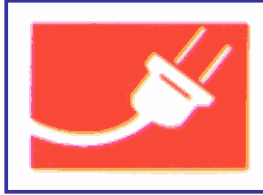
This symbol appears when a danger of cuts or punctures caused by the use of a sharp object exists.

EAGLE SCIENCE  **Fume Safety**



This symbol appears when chemical reactions could cause dangerous fumes

EAGLE SCIENCE  **Electrical Safety**



This symbol appears when care should be taken while using electrical equipment.

EAGLE SCIENCE  **Plant Safety**



This symbol appears when poisonous plants or plants with thorns are handled.

EAGLE SCIENCE  **Animal Safety**



This symbol appears whenever live animals are studied and the safety of the animals and the students must be ensured.

EAGLE SCIENCE  **Radioactive Safety**



This symbol appears when radioactive materials are used.

EAGLE SCIENCE  **Clothing Protection Safety**



This symbol appears when substances used could stain or burn clothing.

EAGLE SCIENCE  **Fire Safety**



This symbol appears when care should be taken around open flames.

EAGLE SCIENCE  **Eye Safety**



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

EAGLE SCIENCE  **Poison Safety**



This symbol appears when poisonous substances are used.

EAGLE SCIENCE  **Chemical Safety**



This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin or taken internally.