Hemingway Name:

# LAB SAFETY

- 1. Follow all instructions carefully. Use special care when you see the word **CAUTION**.
  - 2. Never do laboratory work unless your teacher is supervising you.
- 3. Always follow the directions given by your lab manual or by your teacher.
  - 4. Know the location of ALL safety equipment in the laboratory.
- 5. Always wear protective eyewear and clothing unless instructed otherwise by your teacher.
  - 6. NEVER run, push, or engage in horseplay of any kind in the laboratory.
    - 7. Never eat or drink in the laboratory.
  - 8. Report any accident, spill, or breakage to you teacher **immediately.**
  - 9. Always clean your work area and equipment at the end of the lab period.

    Glassware is to be cleaned an put away in the proper location
    - 10. Dress properly for the laboratory.
      - a. Roll long sleeves above the wrist
    - b. Don't wear loose-fitting sleeves or bulky outerwear.
      - c. Tie back long hair.
      - 11. Use care with electricity.
  - a. Always make sure electrical cords are kept away from the edge of the table where people passing by can catch them.
  - b. Always make sure that your hands are dry before you handle any electrical equipment.
    - c. Always use electrical equipment in a completely dry area.
      - 12. Be careful with laboratory glassware.
- a. Always check glassware before you use it. Never use glassware that is chipped or cracked. Show this glassware to your teacher.
  - b. Never use your bare hands to clean up broken glassware.
  - c. Always be careful when carrying glassware to and from you work area.
    - 13. Be very careful with heat or fire.
    - a. Always use tongs to handle hot containers, objects, or materials.
      - b. Always heat liquids slowly and/or cover to avoid spattering.
    - c. Always turn burners and hotplates off when they are not in use.
  - d. Never allow flammable materials such as alcohol near an open flame.
  - e. Notify your teacher in the case of a burn. Minor burns should be soaked immediately in cold running water.
    - 14. Use extreme care when working with chemicals.
    - a. Always treat the chemicals in the laboratory as hazardous.
      - b. Never taste substances in the laboratory.
  - c. Never smell or touch substances in the laboratory without specific instructions.
    - d. Never mix any chemicals unless you are instructed to do so.
      - e. Use materials from containers that are clearly marked.
      - f. Wear goggles and an apron whenever heating chemicals.
  - g. If you spill any chemicals on your skin, wash your skin with running water. If chemicals splash in your eyes, use an eyewash.
    - h. Notify your teacher immediately of any chemical spills.



# Class A: Compressed Gas

This class includes compressed gases, dissolved gases and gases liquified by compression or refridgeration. Examples: gas cylinders for oxyacetylene welding or water disinfection



#### Class B: Flammable and Combustible Material

Solids, liquids and gases capable of catching fire or exploding in the presence of a source of ignition. Examples: white phosphorus, acetone and butane. *Flammable* liquids such as acetone are more easily ignited than *combustible* liquids such as kerosene.



# Class C: Oxidizing Material

Materials which provide oxygen or similar substances and which increase the risk of fire if they come into contact with flammable or combustible materials. Examples: sodium hypochlorite, perchloric acid, inorganic peroxides.



### Class E: Corrosive Material

Acid or caustic materials which can destroy the skin or eat through metals. Examples: muriatic acid, lye.



# Class F: Dangerously Reactive Material

Products which can undergo dangerous reaction if subjected to heat, pressure, shock or allowed to contact water. Examples: plastic monomers such as butadiene and some cyanides.



### Class D: Poisonous & Infectious Materials

Class D, Division 1 Materials causing immediate and serious toxic effects. This division covers materials which can cause the death of a person exposed to small amounts. Examples: sodium cyanide, hydrogen sulphide.



# Class D, Division 2

Materials causing other toxic effects. This division covers materials which cause immediate eye or skin irritation as well as those which can cause long-term effects in a person repeatedly exposed to small ammounts. Examples: acetone (irritant), asbestos (carcinogen), toluene diisocyanate (senzitizer).



### Class D, Division 3

Biohazardous infectious material. This division applies to materials which contain harmful microorganisms. Examples: cultures or diagnostic specimens containing salmonella bacteria or the hepatitis B virus