Ms. Edwards **Lab Safety Study Guide**

**General Safety Rules**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_instructions carefully before attempting to do anything.

2. Wear \_\_\_\_\_\_\_\_\_\_\_\_ to protect your eyes from chemicals, heated materials, or things that might be able to shatter.

3. \_\_\_\_\_\_\_\_\_\_\_\_\_ if any spills or accidents occur.

4. After handling chemicals, always \_\_\_\_\_\_\_\_\_ with soap and water.

5. During lab work, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Tie back \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

7. Roll up \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. Know the \_\_\_\_\_\_\_\_\_ of the fire extinguisher, fire blanket, eyewash station, and first aid kit.

9. Keep your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Take to the lab station only what is necessary.

10. It is suggested that you wear \_\_\_\_\_\_\_ rather than contact lenses.

11. Never put anything into your \_\_\_\_\_\_\_\_ during a lab experiment.

12. \_\_\_\_\_\_\_\_ your lab area at the conclusion of the laboratory period.

13. \_\_\_\_\_\_\_\_\_\_\_\_\_ or play practical jokes in the laboratory.

**Glassware Safety**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ should not be used. Show it to the teacher.

2. \_\_\_\_\_\_\_\_\_\_\_ should not be disposed of in a classroom trashcan. There is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ container for it.

3. When \_\_\_\_\_\_\_\_\_\_\_\_\_\_, make sure the container you are pouring into is resting on a table at least a hands breadth from the edge.

4. Pour down a \_\_\_\_\_\_\_\_\_\_\_\_ to prevent liquids from splattering.

5. If a piece of glassware gets broken, do not try to clean it up by yourself. \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into a rubber stopper, apply a lubricant like \_\_\_\_\_\_\_\_\_ to the glass and use a twisting motion.

7. Do not place \_\_\_\_\_\_\_\_\_\_\_in water. Rapid cooling may make it shatter.

**Chemical Safety**

1. Wear \_\_\_\_\_\_\_\_\_\_\_ and a lab apron whenever heating or pouring hazardous chemicals.

2. Never \_\_\_\_\_\_\_\_\_\_\_ together unless you are told to do so (and then only in the manner specified).

3. \_\_\_\_\_\_\_\_\_\_\_ any chemicals (you should never taste anything in the lab).

4. If you need to smell the odor of a chemical, \_\_\_\_\_\_\_\_\_\_ toward
your nose with one hand. Do not put your nose over the container and inhale the fumes.

5. Never pour water into a concentrated acid. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of your teacher when disposing of all chemicals.

7. \_\_\_\_\_\_\_\_\_\_\_\_\_ after handling hazardous chemicals.

**Electrical Safety**

1. Lay \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where no one can trip on them or get caught in them.

2. Be sure your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ before using electrical equipment.

3. Never poke anything into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Unplug cords by \_\_\_\_\_\_\_\_\_ and not the cord.

5. \_\_\_\_\_\_\_\_\_ all electrical equipment at the \_\_\_\_\_\_\_\_\_\_.

**Heating Safety**

1. Let \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ down before touching them. Test to see if they are cool enough by bringing the back of your hand close to them.

2. Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to handle hot objects.

3. Never reach across an \_\_\_\_\_\_\_\_\_ or burner.

4. The only type of glassware that may safely be heated is either \_\_\_\_\_\_\_\_\_\_.

5. Always point the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that are being heated \_\_\_\_\_\_\_ from people.

6. When heating a test tube, \_\_\_\_\_\_\_ around slowly over the flame to distribute the heat evenly.

7. Only glassware that is thoroughly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. Heat glassware by placing it on a wire gauze \_\_\_\_\_\_\_\_\_\_\_\_. Do not hold it in your hand.

9. \_\_\_\_\_\_\_\_\_\_\_\_, wait until the striker is in place before you turn on the gas.

10. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the air supply valve below the tube of the burner. This regulates the flame temperature and color.

11. Never leave a \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**First Aid**

**Injury:** Burns

**What To Do:** Immediately \_\_\_\_\_\_\_\_\_\_\_\_\_ until burning sensation is lessened.

**Injury:** Cuts, bruises

**What To Do:** Do not touch an open wound without safety gloves. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a few minutes. Apply cold compress to bruises to reduce swelling.

**Injury:** Fainting

**What To Do:** Provide fresh air and have the person recline so that their head is lower than the rest of their body.

**Injury:** Eyes

**What To Do:** \_\_\_\_\_\_\_\_\_\_\_ immediately with plenty of water for several minutes. If a foreign object is lodged in the eye, do not allow the eye to be rubbed.

**Injury:** Poisoning

**What To Do:** Find out what substance was responsible for the poisoning and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Injury:** Spills on the skin

**What To Do:** \_\_\_\_\_\_ with large quantities of water. For \_\_\_\_\_\_\_, apply baking soda solution. For \_\_\_\_\_\_\_, apply vinegar or boric acid.

**Injury:** Electrical shock

**What To Do:** \_\_\_\_\_\_\_ the current at the source. Remove wire with \_\_\_\_\_\_\_\_\_. Alert the teacher immediately.