NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Test Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Physical Science Lab Safety Rules**

* **A. General Safety Rules**

1. Listen to or read carefully before attempting to do anything.

2. Wear safety goggles to protect your from , materials, or things that might be able to .

3. Notify your teacher if any spills or occur.

4. After handling chemicals, always wash your with and water.

5. During lab work, keep your hands away from your .

6. Tie back long .

7. Roll up loose .

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

9. Keep your work area . Take to the lab station only what is necessary. Stay at your station unless you need materials.

10. It is suggested that you wear glasses rather than .

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

12. Clean up your lab area at the of the laboratory period.

13. Never “horse around” or play in the laboratory.

* **B. Glassware Safety**

1. Chipped or cracked glassware should not be . Show it to the .

2. Broken glassware should not be disposed of in a classroom trashcan. There is a glass disposal container for it.

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

4. Pour down a glass stirring rod to prevent liquids from .

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

6. It is hard to tell if is or . You should place your \_\_\_\_\_\_\_\_\_\_\_\_\_\_ over the glass test it out.

* **C. Chemical Safety**

1. Wear protective goggles and a lab whenever heating or hazardous chemicals.

2. Never mix chemicals unless you are told to do so (and then only in the specified).

3. Never taste any chemicals (you should never taste in the lab).

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

5. Never pour water into a concentrated . Acid should be poured into water.

6. If you spill an acid, you pour a to cancel it out. If you spill a base, you pour an acid to it out.

7. Follow the instructions of your teacher when disposing of all .

8. Wash your hands after handling chemicals.

* **D. Electrical Safety**

1. Lay electrical cords where no one can trip on them or get in them.

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

3. Never poke anything into electrical .

4. Unplug cords by pulling the and not the cord.

5. Unplug all electrical equipment at the end of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* **E. Heating Safety**

1. Let burners and hotplates cool down before them. Test to see if they are cool enough by bringing the back of your hand close to them.

2. Use tongs and/or protective gloves to handle objects.

3. Never reach across an open or .

4. Always point the top ends of test tubes that are being heated from people.

5. When heating a test tube, move it around slowly over the flame to distribute the evenly.

* **First Aid**

Injury: Burns

* To do: Immediately flush with water until burning sensation is lessened.

Injury: Cuts, bruises

* To do: Do not an open wound without safety gloves. Pressing directly on minor cuts will stop bleeding in a few minutes. Apply cold compress to bruises to reduce .

Injury: Fainting

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

Injury: The eyes

* To do: Flush eyes immediately with plenty of for several minutes. If a foreign object is lodged in the eye, do not allow the eye to be .

Injury: Poisoning

* To do: Find out what substance was responsible for the poisoning and alert the immediately.

Injury: Spills on the skin

* To do: Flush with large quantities of water. For acid spills apply solution. For base spills apply \_\_\_\_\_\_\_\_\_ or boric acid.

Injury: Electrical shock

* To do: Shut off the current at the . Remove wire with rubber gloves. Alert the \_\_\_\_\_\_\_\_\_\_\_ immediately.