Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Flame Test Lab- Physical & Chemical Changes**

*Identifying physical and chemical changes from a variety of substances.*

**Directions:**

1. **Put on safety goggles.**
2. **Fill a beaker half way with water to dispose of the used wooden splints.**
3. **Set up a Bunsen burner**
4. Get a piece of Mg ribbon and hold it in the flame. Record what occurs.
5. Obtain a wooden splint. Dip it in water, then dip it in the chemical.
6. Hold the stick in the flame and record what occurs. (Do not hold it in the flame long enough to catch the stick on fire!!!) Dip in water to extinguish.
7. Repeat step 5 for all of the chemicals.
8. Complete any other activities assigned by the teacher.
9. **Clean up your lab area.**

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical | Physical Properties | Physical or Chemical Change | Color Chemical Burns |
| Magnesium Ribbon |  |  |  |
| Barium Chloride |  |  |  |
| Copper II Sulfate |  |  |  |
| Sodium Chloride |  |  |  |
| Sodium Borate |  |  |  |
| Calcium Chloride |  |  |  |
| Copper (II) Chloride |  |  |  |
| Strontium Chloride |  |  |  |
| Cobalt Chloride |  |  |  |
| Potassium Chloride |  |  |  |

1. Explain how to identify a physical change.
2. List and explain the 4 clues to identifying a chemical change.
3. Give 2 examples of physical changes.
4. Give 2 examples of chemical changes.
5. Explain the difference between a change and a property.