

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 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 (at least 2)	Chemical Properties (Is it flammable? What color will it burn?)	Physical or Chemical Change (Which did you observe?)	Chemical Change (What happened?)
Magnesium Ribbon				
Barium Chloride				
Copper II Sulfate				
Sodium Chloride				
Sodium Borate				
Copper (II) Chloride				
Strontium Chloride				
Lithium Chloride				
Potassium Chloride				
Cobalt Chloride				

The following questions are a review of chemical and physical changes. They are not all directly related to the lab. You may use your binder if you need help answering the questions.

1. Explain how to identify a physical change.
2. List and explain the 4 keys 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.