

Name: _____

Period: 1 2 3 4 5 6 7

Date: _____

Physical & Chemical Change Lab

Objectives

- Observe physical & chemical changes
- Differentiate between a physical and chemical change

Materials

- Bunsen burner
- Ring stand & ring
- Wire gauze
- Glass beaker
- Two samples of powder A
- One sample of powder B
- 2 Test tubes
- Test tube holder & rack

Safety

- **For this lab, you will be required to wear safety glasses at all times.**
- **Long hair must be tied back and kept away from open flames.**
- **Absolutely no horseplay is allowed.**

Procedure

1. Put approximately 100 ml of water into the beaker. Pour in approximately 1 tablespoon of sample A into the water. Stir the powder until it dissolves completely. In your lab notebook, describe what has happened.
2. Set up the Bunsen burner and stand as shown by your instructor. Light the burner and put on a gentle flame. Carefully place the beaker of solution over the flame and watch it as it comes to a boil. Control the flame to keep a light boil.
3. Closely observe the beaker as the water is boiled away. Describe what you see in your notebook. When the water is almost completely gone or if the solution starts to splatter, turn off the gas and allow your beaker to cool.

For the next part of the lab, your instructor will demonstrate safe handling of a test tube over a burner. Make sure you watch carefully before continuing.

- **Keep the mouth of the test tube pointed away from people.**
- **Do not sniff directly from the test tube, gently waft the fumes towards your face.**
- **Do not touch hot objects with your hands. Assume objects are hot and allow sufficient time for them to cool before handling.**