**Chemical / Physical**

**Properties and Changes**

**Learning Target:**

**The student will learn the difference between a chemical change and a physical change and be able to recognize the difference.**

**Physical Properties: Are those that can be observed when a substance changes in appearance or phase (solid, liquid or gas). These can be seen when an object goes through a physical change.**

**Example of a physical change???**

**Chemical Properties: Are those that can be observed when a substance changes in chemical composition. These can be seen when ever a chemical change takes place.**

**Example of a chemical change???**

**There are four different observations that are evidence of a chemical change:**

1. **If two transparent liquids are mixed and a solid or “floaties” (the solid often settles to the bottom and is also known as a precipitate).**
2. **If some kind of gas is given off (usually see bubbles or smell an order)**
3. **If heat is given off (exothermic or hot reactions)**
4. **If heat is taken in (endothermic or cold reactions)**