CHEMICAL PROPERTIES

Definition: How one thing **reacts** with another

Examples:

- 1. **Flammability** how well something reacts with oxygen to produce heat/flame
- 2. **Reactions with acid** how well something reacts with an acid. Main reaction with and acid results in bubbling. When an acid reacts with another substance, usually hydrogen gas (which is highly explosive) is released
- 3. Other Reactions include heat being released, bubbling, strong odor, smoke, flame_change of color, etc.

 4. Non-Reactivity – when something *fails* to react of the second in acid has no
- t planum has no reaction reaction...nothing happens. n held into a fla
- - They always produce a **new substance** totally different that the substance you started with
 - Most chemical reactions cannot be reversed

Characteristic Property – Can be Physical or Chemical

- Something unique to a substance doesn't matter how much or how little the sample of matter is
- Chemical characteristic property (of sodium) = sodium ignites when in contact with water

PHYSICAL CHANGE

- The appearance may change, but you still have the same substance as before can be reversed and no energy is produced
- Example Tear a piece of paper into 10-15 pieces. The shape and size have changed, but its still paper