Physical Properties

* Is the substance still the same substance?
* Does measuring properties change the identity of a substance?
  + Mass and Volume
  + You can change shape and volume but is the substance that you are observing still the same?
* Mass
* Volume
* Density
  + How do you solve for density?

What is a Physical Change?

* A change in any physical property of a substance, not in the substance itself
* Remember to ask yourself what has changed about the substance?

Chemical Properties

* Describe how substances form new substances
  + Combustibility
  + Rust
* Are there any other examples that you can think of that are chemical changes?
  + Think of statues, buildings, or other things you may have seen.

Chemical Change

* Help identify chemical properties
* Change of one substance into another substance
* Affects the substances involved in the change
* Combinations of atoms in the original substances are rearranged to make new substances
* Only true indication of chemical change is that a new substance has formed.
  + Examples
    - Burning
    - Rusting
    - Tarnishing
    - Cooking
    - Raw egg gets changed into new substances as energy is added
    - Digestion
* Signs of a Chemical Change
  + Production of an Odor
  + Change in Temperature
  + Change in Color
  + Formation of Bubbles
  + Formation of a Solid