

Physical and Chemical Changes

**WHAT PROPERTIES ARE YOU
CHANGING?**

Physical Properties

- Characteristics of a substance that can be seen without changing the original material
- Examples:
 - Color
 - Odor
 - Taste
 - Density
 - Temperature
 - Changes in state
 - Solubility

Chemical Properties

- The ability to undergo or resist chemical change
- Examples:
 - Flammability
 - Reactivity
 - Corrosion

PHYSICAL AND CHEMICAL CHANGES

Physical Changes

- Change in how matter looks, but the chemical make-up is still the same
- Most changes can be undone or reversed
- Examples:
 - Crumpling a piece of paper
 - Stomping on a soda can
 - Sharpening a pencil
 - Melting butter

Chemical Changes

- Change in which the matter no longer has the same chemical make-up
- Most chemical changes are difficult to undo or reverse
- Examples:
 - Paper coming in contact with fire
 - Iron coming in contact with water

Evidence of Chemical Change

- a gas is produced
- the temperature changes
- a substance disappears
- a solid is formed
- a color change occurs
- a new odor is produced
- Fizzing or foaming
- Production of sound or light