

- The entropy change of the surroundings is driven by heat flow.
  - 2nd law: every energy transfer or transformation increases the entropy of the universe.
- c. Conservation of matter in chemical systems.
- Matter neither created nor destroyed, so we must have the same number and type of atoms after the chemical change as were present before the chemical change.
- d. Kinetic and potential energy
- **Kinetic energy:** energy in motion.
  - **Potential energy:** the energy possessed by a body by virtue of its position relative to others, stresses within itself, electric charge, and other factors.
- e. Transformations between different forms of energy (thermal, chemical, radiant, nuclear, mechanical, electrical, electromagnetic, sound, and chemical).
- **Energy Transformations Examples:** An energy transformation is the change of energy from one form to another. Energy transformations occur everywhere every second of the day. There are many different forms of energy such as electrical, thermal, nuclear, mechanical, electromagnetic, sound, and chemical.

#### f. Differences between chemical and physical properties/changes

- The difference between a physical reaction and a chemical reaction is composition.
- **Chemical property changes:** The changing of color of a substance is not necessarily an indication of a chemical change. For example, changing the color of a metal does not change its physical properties; however, in a chemical reaction, a color change is usually an indication that a reaction is occurring.
  - Change in Temperature
  - Change in Color
  - Noticeable Odor (after reaction has begun)
  - Formation of a Precipitate
  - Formation of Bubbles
- **Physical property changes:** A physical change there is a difference in the appearance, smell, or simple display of a sample of matter without a change in composition.
  - Texture
  - Color
  - Temperature
  - Shape
  - Change of State (Boiling Point and Melting Point are significant factors in determining this change.)

Physical properties include many other aspects of a substance. The following are (but not limited to) physical properties:

- Luster
- Malleability
- Ability to be drawn into a thin wire
- Density
- Viscosity
- Solubility
- Mass
- Volume

#### g. Various temperature scales (Celsius, Fahrenheit, Kelvin)

# Science Praxis Study Guide

**Robert R. Redfield**



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