

## CHEMISTRY COMES ALIVE

Matter – anything with mass and occupies space

- weight – pull of gravity on mass
- solid – with definite shape and volume
- liquid – with definite volume but changeable shape
- gas – with changeable volume and shape

Energy - capacity to do work or put matter into motion

- 2 types – kinetic energy – energy in action
- potential energy – stored ( inactive ) energy
- energy can be transferred from potential to kinetic

Forms of energy used by the body:

1. Chemical energy – stored in the chemical bonds
  - ATP ( energy of the body)
2. Electrical energy - result from movement of charged particles
3. Mechanical energy – energy that directly cause the movement of matter
4. Radiant or electromagnetic energy - energy that travel in waves.
  - light, infrared waves, radiowaves, ultraviolet waves, X-rays

Energy - is neither created nor destroyed

- can be converted from one form to another form,
- some energy is unused in the conversion ( lighting a bulb)

Composition of Matters: All matters are made up of elements

Elements: - unique substances that cannot be broken into simpler form by ordinary chemical means

- 2 properties of elements – physical – anything we can sense or measure
- chemical – how atoms interact (bond ) with other atoms

Atoms -unique building blocks of elements

- give each element its chemical and physical properties
- smallest particles of the element that retain the properties of the element
- atomic symbols – designated for each element.
  - usually represented by the first letter or the first 2 letter of the name of the element in English, Latin mainly and rarely in other languages
- 118 elements – 92 are naturally occurring
- 26 are produced from natural element by particle accelerator or nuclear reactor.

# Chemistry Comes Alive Study Guide Answer Key

**Peipei Pang**



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