Properties of Energy Unit Outline (11/18)

I. Energy

A. ability to produce a change or to move something some distance

B. types

1. **potential**: energy of position or stored energy

    a. gravitational: in position for gravity to move object
    b. chemical: energy stored in food or in molecular bonds
    c. nuclear: energy stored in nucleus of atoms
    d. elastic: energy stored in stretched elastic or spring

2. **kinetic**: energy of motion

    a. sound: vibrations in matter we can hear
    b. light: moving photons that allow us to see
    c. mechanical: moving mechanism
    d. thermal: molecular motion in matter (friction can make it)
    e. electrical: energy in moving charges

C. Law of Conservation of Energy

1. energy cannot be created or destroyed; it can only change forms

D. Energy flow charts—show how one type of energy changes into another

Properties of Energy **"I Can statements" outline** (11/18)

I. Energy

A. I can define energy.

B. I can name different types of energy and can classify them as either ***potential*** or ***kinetic.*** I can also recognize different types of energy that are involved in different situations.

C. I can explain what can and what cannot happen to energy according to the Law of Conservation of Energy.

D. I can create and explain energy flow charts for a variety of toys/machines