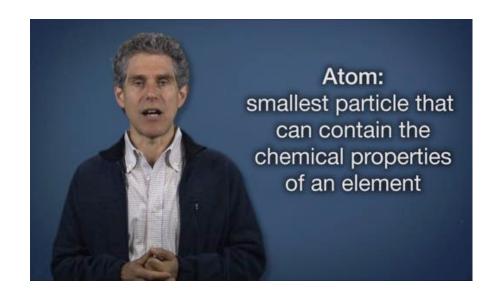




Weight:
the force that results
from the action
of gravity on mass

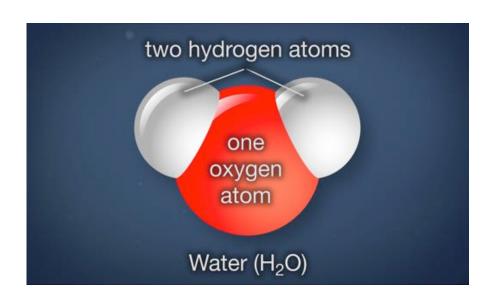




Element:

substance composed of atoms that cannot be broken down into smaller, simpler components

Molecules: particles that contain more than one atom Compounds: molecules that contain more than one element



Atoms are composed of

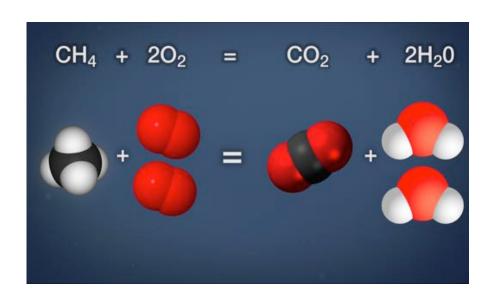
Protons: positively charged Electrons: negatively charged Neutrons: neutral (no charge)

System:

any set of interacting components that influence one another by exchanging energy or materials

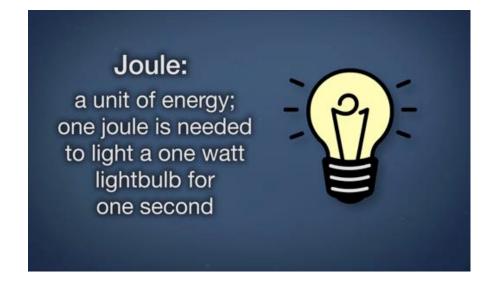
Chemical reaction:

when atoms separate from the molecules they are part of or combine with other molecules









calorie: a unit of energy; the amount of energy needed to raise one gram of water one degree centigrade

First Law of Thermodynamics: energy can neither be created nor destroyed, only transformed from one form to another

Second Law of Thermodynamics:

when energy is transformed there is always a loss in energy quality (the ability to do work decreases)

