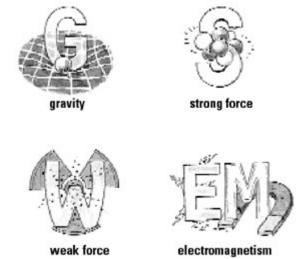
Physics 12 Four Fundamental Forces

1. There are four fundamental forces in the Universe: Gravity, Electromagnetic, Strong Nuclear and Weak nuclear.



- 2. Gravity is the force with which you are most familiar -it is the force of attraction between two objects that have matter (mass). It is the strongest force at large distances. Gravity is the weakest force at small distances.
- 3. Electromagnetic forces are responsible for the static electric forces and the magnetic forces. These two forces have been related to each other mathematically.
- 4. The weak nuclear force is the force responsible for the neutron breaking apart into an electron and proton.
- 5. The strong nuclear force is the force of attraction between protons and protons, protons and neutrons, neutrons and neutron. This force is the dominant force at distances less than 10⁻¹⁵m.