**Chapter 5 Quiz Study Guide**

* Make sure you know the definition and examples for the following terms:
  + Kinetic energy- energy in the form of motion, depends on mass and speed
  + potential energy (and its 3 forms)- stored energy, depends on mass and height
    - chemical potential energy
    - gravitational potential energy
    - elastic potential energy
  + work- transfer of energy from one object to another through motion
  + nuclear energy- form of energy stored in the nucleus of the atom
  + sound energy- a dog barking, tansforms mechanical into sound energy
  + thermal/radiant energy- the sun gives off this energy
  + electrical energy- current flows through a wire
  + mechanical energy- moving of air in the room by a fan
  + friction- slowing down of an object due to rubbing
  + The Law of Conservation of Energy- energy that cannot be created nor destroyed and energy can change forms.
* Make sure you know the 2 things kinetic energy depends on.
  + Depends on the mass and speed of an object
* Make sure you know the 2 things gravitational potential energy depends on.
  + Depends on the mass and height of an object
* Given examples, make sure you know what must occur for work to be done.
* Given examples, be able to identify what energy transformation has taken place.
* Make sure you know and understand the basketball example of how kinetic and potential energies change as the ball rises and falls.
* Understand how friction is involved and in general, what energy transformation takes place when friction occurs.