**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.