

Cut out the flash cards and place them on your index cards with tape or glue.

Front of  
Flash Card

Back of  
Flash Card

<b>energy</b>	The ability to do work. "the stuff that makes things move"
<b>CHEMNRS</b>	A helpful tool to learn the 7 forms of energy. Chemical, Heat, Electrical Mechanical, Nuclear, Radiant, and Sound
<b>Potential energy</b>	Energy that is being stored.
<b>kinetic energy</b>	Energy that is <b>working</b> . (energy of an object moving)
<b>Law of Conservation of Energy</b>	Energy CANNOT be created or destroyed but CAN be transformed into seven different forms
<b>chemical energy</b>	The energy in <b>bonds</b> that <b>hold atoms together</b> in compounds or molecules.
<b>thermal energy</b> (also called heat)	The energy of <b>particles</b> <b>bumping into each other</b> .
<b>electrical energy</b>	The <b>actual flow</b> of electrons from negative to positive charges.
<b>electrical potential</b>	The buildup of electrons that are <b>ready to flow</b> to a positive charge.

<p><b>mechanical Energy</b> (kinetic form)</p>	<p>The energy of moving objects.</p>
<p><b>gravitational potential energy (GPE)</b></p>	<p>Energy of an object that has the ability to fall due to gravity.</p>
<p><b>nuclear energy</b></p>	<p>The energy that is stored in the nucleus of the atom. It takes <u>work</u> to hold the nucleus together!</p>
<p><b>radiant energy</b> (light)</p>	<p>A form of energy that begins with a vibrating charged particle and travels in waves at the speed of light.</p>
<p><b>sound energy</b></p>	<p>A form of energy that begins with vibrating particles and travels through matter in waves.</p>
<p><b>The formula to calculate kinetic energy</b></p>	<p><math>K.E. = \frac{1}{2} mv^2</math> = .5(mass)(velocity)(velocity)</p>
<p><b>The formula to calculate potential energy</b></p>	<p><math>P.E. = mgh</math> = (mass)(gravity)(height)</p>