

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Entry #:

Important Vocabulary: Energy Unit  
**PUT THIS IN YOUR BINDER TO KEEP!!!**

Vocabulary Word	DEFINITION and Examples
Heat	<p>Thermal energy transferred from an area of high temperature to an area of lower temperature.            A form of energy transferred by a difference in temperature.</p> <p><b>Example Sentence:</b> Heat from a cup of coffee will move to the colder air in the room around it.</p>
Insulator	<p>Material that prevents the transfer of heat from one object to another.            A material with little electrical or thermal conductivity</p> <p><b>Example Sentence:</b> A pot holder is an insulator because it prevents your hand from being burned.</p>
Conductor	<p>Material that easily transfers heat from one object to another.            A device designed to transmit electricity or heat.</p> <p><b>Example Sentence:</b> A metal pan is a conductor, which transfers heat from the stove to the food inside the pan.</p>
Kinetic Energy	<p>Energy that an object has due to its motion.            The mechanical energy that a body has by virtue of motion.</p> <p><b>Example Sentence:</b> A ball falling from a shelf has kinetic energy as it moves.</p>
Temperature	<p>Measure of the average kinetic energy of the particles in a substance.            The degree of hotness or coldness of a body or environment</p> <p><b>Example Sentence:</b> Temperature tells you the energy of the air in the room around you.</p>
Potential Energy	<p>Energy that is stored and ready to be used.            Mechanical energy that a body has by virtue of its position</p> <p><b>Example Sentence:</b> A roller coaster has the highest potential energy before it goes down the hill.</p>
Convection	<p>Transfer of heat by the movement of currents in air and liquids.            Transfer of heat caused by molecular motion in liquid or gas.</p> <p><b>Example Sentence:</b> Convection ovens circulate heat to bake the food.</p>
Radiation	<p>Energy transfer by electromagnetic waves.            Energy transmitted in the form of rays or waves or particles</p> <p><b>Example Sentence:</b> The “magic box” or microwave in your kitchen uses radiation to heat food.</p>
Expansion	<p>Increase in the space between particles in an object, making it larger.            The act of increasing in size or volume or quantity or scope</p> <p><b>Example Sentence:</b> Expansion occurs in the particles of a substance when the temperature increases.</p>

Contraction	<p>Decrease in the space between particles in an object, making it smaller. The act of decreasing in size or volume or quantity or scope.</p> <p><b>Example Sentence:</b> Contraction occurs in the particles of a substance when the temperature decreases.</p>
Thermal Energy	<p>Total energy of all the particles in an object.</p> <p><b>Example Sentence:</b> Temperature measures the total thermal energy of a substance.</p>
Conduction	<p>Transfer of heat by direct contact between particles in a substance.</p> <p><b>Example Sentence:</b> When you touch a hot pan conduction transfers the heat from the pan to your hand.</p>