



Heat Study Guide



Name _____

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Heat Unit Terms

heat-the movement of thermal energy from warmer objects to cooler objects

thermal energy-the energy created by moving particles in matter

friction-the force that happens when two objects rub against each other

solar energy-heat energy from the sun

conductor-any material that heat easily passes through

insulator-any material that heat does not easily pass through

temperature-a. the measure of how hot or cold an object is b. the measure of how much heat energy an object has

conduction-the process that allows heat energy to transfer between two solids that are touching

convection-the process through which heat energy moves through liquids and gases

radiation-the process through which heat energy moves through waves between objects that are not touching

advection-the process through which heat moves in a horizontal direction

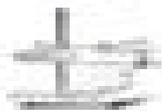
thermometer-the instrument that is used to measure an object's temperature

degrees-unit of temperature

What are the sources of heat energy (ways heat energy is produced)?



The sun (solar energy)



Friction-rubbing objects together

Motion kinetic energy



Mixing
chemical/chemical reactions and/or change



electricity



fire or burning fuels or objects

How does heat energy travel or transfer from one object to the next?

Heat energy travels from warmer objects to cooler objects through convection, conduction or radiation.



Heat energy travels in a circular path during convection. This is how liquids and gases are heated. (i.e. -boiling water or soup)

Heat energy travels from one object to another when they touch during conduction. (i.e. -your hand touching a hot stove)

Radiation allows heat energy to travel in waves between objects that are not touching. (i.e. -solar energy)

Advection allows heat energy to travel in a horizontal path (i.e. -wind blowing heat energy)

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