

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

Science Study Guide: Investigating Heat

Test Date: OCTOBER 6, 2015

Celsius-basic unit in the metric system for measuring temperature

Degrees-equal divisions of units of temperature

Fahrenheit-basic unit in the English system for measuring temperature

Heat-the energy transferred from one molecule to another because of a difference in kinetic energy between the two molecules

Kinetic Energy-the energy of motion

Molecule-a particle of matter

Temperature-a measure of kinetic energy of molecules

Thermometer-a scientific tool that measures temperature in degrees Celsius and degrees Fahrenheit

Conduction-the process of transferring heat from one material to another by direct contact of one molecule to another

Conductor-a material that transfers heat easily

Convection-the process of heat transfer through liquids and gases

Insulator-a materials that does not transfer heat easily

Radiation-the process of transferring heat from an object through electromagnetic waves such as light, ultraviolet waves and infrared waves

Rate of Heat Transfer-how quickly heat is transferred

Evaporation-the process by which liquid water becomes water vapor (a gas)

Joule-Thompson Effect-the decrease in temperature observed when a compressed gas is allowed to expand rapidly

Law of Conservation of energy-energy is neither created nor destroyed, it simply changes form

On this test you must be able to...

-give examples of conductors and insulators FROM LAB (see page 13)

-read a thermometer and accurately identify the temperature in Celsius OR Fahrenheit

-identify boiling point (in °C and °F), freezing point (in °C and °F), average room temperature (in °F) and average body temperature (in °F)