

Topic/Objective: Energy Transfer & Temperature/Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles by the temperature of the sample.	Name: Ms. H Class/Period: 3 rd & 4 th Block 7 th Grade Date: Monday, 1.14.19
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Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it?

Question	Notes	
	Key Points	Information
How does thermal energy flow from object To object?	Thermal Energy	the total energy of the atoms and molecules of a substance As particles move states of matter changes heat flows from the hot object to cooler object
What are the types of SI units that represents Temperature? What are the only two SI units that are commonly used in science?	Common SI Unit	Kelvin (K), Fahrenheit (F) or Celsius (C) represents temperature
How can thermal energy transfer from one Object to another?	Transfer of Thermal Energy	occurs when there's two temperatures of objects Moves from high to low temperatures Transferred by conduction, convection, and radiation
What is the difference between conduction Convection radiation?	Conduction	flow of energy through touch Primarily with solids
	Convection	flow of energy through liquids and gas
	Radiation	thermal motion of particles Through open space
What is the difference between insulator And conductor? Know examples	Factors Affecting Thermal Energy Transfer	the type of matter affects how heat is transferred Different objects have different thermal properties
	Insulators	do not easily transfer thermal energy
	Conductors	easily transfer thermal energy Molecules are packed tight

SUMMARY:

The shallow water of the lake warmer than the deeper water below it because of convection which can allow warm ocean currents moving toward cooler ocean currents or when warm air masses move into areas of cooler air masses.

