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. Date: Wonday, 1.14.19 Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Question Notes Information To object? Thermal Energy the total energy of the advance of the sample. What are the types of SI units that represents Information What are the types of SI units that represents the hot object to cooler object Temperature? What are the only two SI units Celsius (C) represents How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Common SI Unit Kelvin (K), Fahrenheit (F) or Less of a substance Advance of the sample of the samaple of the sample of the sample of the sample of the sample of t	Topic/Objective: Energy Transfer &	Name: Ms. H		
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. Date: Monday, 1.14.19 Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Information Question Notes Information How does thermal energy flow from object Key Points Information To object? Thermal Energy the total energy of the atoms and molecules of a substance Matter the types of SI units that represents Thermal Energy the hot object to cooler object Temperature? What are the only two SI units Common SI Unit Kelvin (K), Fahrenheit (F) or that are commonly used in science? Common SI Unit Kelvin (K), Fahrenheit (F) or Object to another? Transfer of Thermal Energy occurs when there's two Object to another? Transfer of Thermal Energy occurs when there's two Object to another? Conduction flow of energy through touch Convection radiation? Convection flow of energy through liquids difference between conduction Convection flow of energy through liquids diation Through open space Transferred Transferred <tr< td=""><td>Temperature/Plan an investigation to</td><td>Class/Period: 3rd & 4th Block 7th Gra</td><td>de</td></tr<>	Temperature/Plan an investigation to	Class/Period: 3 rd & 4 th Block 7 th Gra	de	
transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles by the temperature of the sample. Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Question Notes	determine the relationships among the energy	Date: Monday, 1.14.19		
the change in the average kinetic energy of the particles by the temperature of the sample. Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Question How does thermal energy flow from object Thermal Energy the total energy of the atoms and molecules of a substance As particles move states of As particles move states of Mutater changes heat flows from 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 Celsius (C) represents the hot object to cooler object How can thermal energy transfer from one Transfer of Thermal Energy Convection and they conduction, convection, and radiation What is the difference between conduction Conduction Convection Radiation Convection Radiation Convection Radiation Convection Radiation Conductor? Convection Convec	transferred, the type of matter, the mass, and			
particles by the temperature of the sample. Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Question Notes How does thermal energy flow from object Thermal Energy The transfer of the take warmer than the deeper water below it? What are the types of SI units that represents Temperature? What are the only two SI units The the tot object of the take warmer than the deeper water below it? What are the types of SI units that represents Temperature? What are the only two SI units The 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 Transfer of Thermal Energy Object to another? What is the difference between conduction Conduction Convection flow of energy through touch Convection flow of energy through touch Transfer Radiation Thermal Energy the type of matter affects how And conductor? Know examples Transfer Convection flow of energy through touch Subat is the difference between insulator Factors Affecting Thermal Energy Conductor? Know examples Transfer Conductors Conductors Convection flow of energy through touch SubMMARY: 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	the change in the average kinetic energy of the			
Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it? Question Notes How does thermal energy flow from object Key Points Information To object? Thermal Energy the total energy of the atoms As particles move states of matter changes heat flows from What are the types of SI units that represents the hot object to cooler object Temperature? What are the only two SI units the total energy 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 Transfer of Thermal Energy occurs when there's two Object to another? Image: temperatures Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Conduction flow of energy through louch Convection radiation? Convection flow of energy through liquids and conductor? Know examples Transferred Different objects have different Mat is the difference between insulator Factors Affecting Thermal Energy	particles by the temperature of the sample.			
Question Notes Information How does thermal energy flow from object Key Points Information 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 What are the types of Si units that represents the hot object to cooler object Temperature? What are the only two Si units matter classes for object that are commonly used in science? Common Si Unit Kelvin (K), Fahrenheit (F) or Leisus (C) represents temperature celsius (C) represents How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Information temperatures of objects What is the difference between conduction Conduction flow of energy through touch Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy heat is transferred Moductor? Know examples Transfer Different objects have different Insu	Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it?			
How does thermal energy flow from object Key Points Information To object? Thermal Energy the total energy of the atoms and molecules of a substance As particles move states of Mhat are the types of SI units that represents the hot object to cooler object Temperature? What are the only two SI units Kelvin (K), Fahrenheit (F) or Celsius (C) represents Celsius (C) represents that are commonly used in science? Common SI Unit Kelvin (K), Fahrenheit (F) or Celsius (C) represents temperature Celsius (C) represents How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Object to another? temperatures of objects Moves from high to low temperatures temperatures Convection radiation? Conduction flow of energy through touch Convection adjation? Convection flow of energy through touch Convection flow of energy through liquids and gas Radiation thermal motion of particles Through open space What is the difference between insulator Factors Affecting Thermal Energy <td colspan="3">Question Notes</td>	Question Notes			
To object? Thermal Energy the total energy of the atoms and molecules of a substance and molecules of a substance of matter changes heat flows from matter changes heat flows from matter changes heat flows from the hot object to cooler object What are the types of SI units that represents the hot object to cooler object Temperature? What are the only two SI units the hot object to cooler object Temperature? What are the only two SI units the hot object to cooler object Temperature? What are the only two SI units Common SI Unit Kelvin (K), Fahrenheit (F) or Celsius (C) represents that are commonly used in science? Common SI Unit How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Transfer of Thermal Energy occurs when there's two Object to another? Transfer of Thermal Energy occurs when there's two Object to another? Conduction flow of energy through touch Convection radiation? Conduction flow of energy through liquids and gas Radiation Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different Unsulators do not e	How does thermal energy flow from object	Key Points	Information	
and molecules of a substance As particles move states of matter changes heat flows from 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 Transfer of Thermal Energy occurs when there's two Object to another? What is the difference between conduction Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy what is the difference between insulator Factors Affecting Thermal Energy the thermal motion of particles Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer Insulators d	To object?	Thermal Energy	the total energy of the atoms	
As particles move states of matter changes heat flows from the hot object to cooler object Temperature? What are the only two SI units that are commonly used in science? Common SI Unit that are commonly used in science? Common SI Unit How can thermal energy transfer from one Transfer of Thermal Energy Object to another? Moves from high to low How can thermal energy transfer from one Transfer of Thermal Energy Object to another? Moves from high to low temperatures Transferred by conduction, convection, and radiation temperatures What is the difference between conduction Conduction flow of energy through liquids Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Difference between insulator factors Affecting Thermal Energy the typ			and molecules of a substance	
What are the types of SI units that represents matter changes heat flows from Temperature? What are the only two SI units the hot object to cooler object 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 Transfer of Thermal Energy occurs when there's two Object to another? Moves from high to low temperatures What is the difference between conduction Conduction flow of energy through touch Convection radiation? Convection flow of energy through touch Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Ufferent objects have different Insulators do not easily transfer thermal energy Conductors easily transfer thermal energy easily transfer thermal energy That is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And cond			As particles move states of	
What are the types of SI units that represents the hot object to cooler object Temperature? What are the only two SI units Kelvin (K), Fahrenheit (F) or Common SI Unit Kelvin (K), Fahrenheit (F) or Celsius (C) represents temperature How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Moves from high to low temperatures Transferred by conduction, Transferred by conduction, convection, and radiation What is the difference between conduction Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy the transferred Mat is the difference between insulator Factors Affecting Thermal Energy the they of matter affects how And conductor? Know examples Transfer heat is transferred thermal properties Insulators do not easily transfer thermal energy energy <t< td=""><td></td><td></td><td>matter changes heat flows from</td></t<>			matter changes heat flows from	
Temperature? What are the only two SI units Common SI Unit Kelvin (K), Fahrenheit (F) or Celsius (C) represents temperature How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Moves from high to low temperatures What is the difference between conduction Conduction flow of energy through louds Convection radiation? Convection flow of energy through louds Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how Moves from high to low Transferred by conduction, convection flow of energy through loudh Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Insulators do not easily transfer thermal energy Molecules are packed tight Molecules are packed tight	What are the types of SI units that represents		the hot object to cooler object	
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 Transfer of Thermal Energy occurs when there's two Object to another? Moves from high to low temperatures Moves from high to low temperatures Transferred by conduction, Convection radiation? Conduction flow of energy through touch Convection radiation? Convection flow of energy through liquids and gas and gas and gas What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different thermal properties do not easily transfer thermal Insulators do not easily transfer thermal energy Conductors easily transfer thermal energy Molecules are packed tight	Temperature? What are the only two SI units			
Celsius (C) represents How can thermal energy transfer from one Transfer of Thermal Energy Object to another? occurs when there's two Object to another? temperatures Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Conduction Convection radiation? Primarily with solids Convection radiation? Primarily with solids Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy Mad conductor? Know examples Transfer heat is transferred Different objects have different Insulators do not easily transfer thermal Insulators do not easily transfer thermal Energy Conductors easily transfer thermal energy Molecules are packed tight molecules are packed tight	that are commonly used in science?	Common SI Unit	Kelvin (K), Fahrenheit (F) or	
How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? temperatures of objects Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Conduction Convection radiation? Primarily with solids Convection radiation? Convection Mages Radiation What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy Ubiferent 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			Celsius (C) represents	
How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? Moves from high to low Moves from high to low temperatures of objects Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Conduction flow of energy through touch Convection radiation? Primarily with solids Convection radiation? Primarily with solids Move from high to low and gas Radiation thermal motion of particles Mhat is the difference between insulator Factors Affecting Thermal Energy Mhat is the difference between insulator Factors Affecting Thermal Energy Mhat is the difference between insulator Factors Affecting Thermal Energy Mat conductor? Know examples Transfer Insulators do not easily transfer thermal energy Lonductors easily transfer thermal energy Molecules are packed tight the stansfer thermal energy Lonductors easily transfer thermal energy Lonductors easily transfer thermal energy Molecules are packed tight the shallow wa			temperature	
How can thermal energy transfer from one Transfer of Thermal Energy occurs when there's two Object to another? temperatures of objects Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Conduction flow of energy through touch Convection radiation? Primarily with solids Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles What is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy And conductor? Know examples Transfer Insulators do not easily transfer thermal energy Conductors easily transfer thermal energy SUMMARY: Molecules are packed tight thermal energy 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				
Object to another? temperatures of objects Moves from high to low temperatures Image: Convection 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	How can thermal energy transfer from one	Transfer of Thermal Energy	occurs when there's two	
Moves from high to low temperatures Transferred by conduction, convection, and radiation What is the difference between conduction Convection radiation? Convection flow of energy through touch Convection radiation? Convection flow of energy through liquids and gas Radiation thermal motion of particles Through open space What is the difference between insulator Factors Affecting Thermal Energy Mad conductor? Know examples Transfer heat is transferred Different objects have different thermal properties lnsulators do not 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	Object to another?		temperatures of objects	
Image: state of the state			Moves from high to low	
Image: state of the lake warmer than the deeper water below it because of convection which can allow warm ocean currents or when warm air masses move into areas of			temperatures	
What is the difference between conduction Conduction flow of energy through touch Convection radiation? Primarily with solids Convection flow of energy through liquids and gas and gas Radiation thermal motion of particles Mhat is the difference between insulator Factors Affecting Thermal Energy What is the difference between insulator Factors Affecting Thermal Energy And conductor? Know examples Transfer Insulators do not easily transfer thermal energy energy Conductors easily transfer thermal energy SUMMARY: Molecules are packed tight 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			Transferred by conduction,	
What is the difference between conduction Conduction flow of energy through touch Convection radiation? Primarily with solids Convection flow of energy through liquids and gas and gas Radiation thermal motion of particles Through open space Through open space What is the difference between insulator Factors Affecting Thermal Energy And conductor? Know examples Transfer heat is transferred Different objects have different Insulators do not easily transfer thermal energy Molecules are packed tight energy 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			convection, and radiation	
Convection radiation? Primarily with solids Convection flow of energy through liquids and gas and gas Radiation thermal motion of particles Through open space Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer 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: Molecules are packed tight 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	What is the difference between conduction	Conduction	flow of energy through touch	
Convection flow of energy through liquids and gas and gas Radiation thermal motion of particles Through open space Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different thermal properties Insulators do not easily transfer thermal energy Conductors easily transfer thermal energy SUMMARY: Molecules are packed tight 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	Convection radiation?		Primarily with solids	
and gas Radiation thermal motion of particles Through open space Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different thermal properties Insulators do not easily transfer thermal energy <u>Conductors</u> 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		Convection	flow of energy through liquids	
Radiation thermal motion of particles Through open space Through open space What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different Different objects have different Insulators do not easily transfer thermal energy 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			and gas	
Image: 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		Radiation	thermal motion of particles	
What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different thermal properties Insulators do not easily transfer thermal energy 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			Through open space	
What is the difference between insulator Factors Affecting Thermal Energy the type of matter affects how And conductor? Know examples Transfer heat is transferred Different objects have different Different objects have different thermal properties do not easily transfer thermal energy easily transfer thermal energy Molecules are packed tight 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				
And conductor? Know examples Transfer heat is transferred Different objects have different thermal properties Insulators do not easily transfer thermal energy energy Conductors easily transfer thermal energy Molecules are packed tight 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	What is the difference between insulator	Factors Affecting Thermal Energy	the type of matter affects how	
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	And conductor? Know examples	Transfer	heat is transferred	
Insulators thermal properties Insulators do not easily transfer thermal energy energy Conductors easily transfer thermal energy Molecules are packed tight 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			Different objects have different	
Insulators do not easily transfer thermal energy energy <u>Conductors</u> easily transfer thermal energy Molecules are packed tight 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			thermal properties	
energy energy Conductors easily transfer thermal energy Molecules are packed tight 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		Insulators	do not easily transfer thermal	
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			energy	
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		Conductors	easily transfer thermal energy	
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			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				
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	SUMMARY:			
warm ocean currents moving toward cooler ocean currents or when warm air masses move into areas of	The shallow water of the lake warmer than th	<u>ne deeper water below it because</u>	of convection which can allow	

cooler air masses.

Topic/Objective: Energy Transfer&	Name: Ms. H		
Temperature/Plan an investigation to	Class/Period: 3 ^{ra} & 4 th Block 7 th Grade		
determine the relationships among the energy	Date: Monday, 1.14.19		
transferred, the type of matter, the mass, and			
the change in the average kinetic energy of the			
particles by the temperature of the sample.			
Essential Question/Phenomena Why is the shallow water of the lake warmer than the deeper water below it?			
Question	Notes		
	Key Points	Information	
	Amount of Matter	greater amount of matter,	
		decreases the thermal	
		conductivity of a substance	
		decreases how easily heat can	
		be transferred through the	
		substance	
	Surrounding Temperature	temperature of the surrounding	
		environment can affect the	
		transfer of energy	
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 of	ocean currents or when warm air	masses move into areas of	
<u>cooler air masses.</u>			