Conduction, convection, and Radiation

Last Name:	First	Period:	Date:	
	Name:		The second secon	

Review

	Transfer of heat by	Example
Conduction	Contact	Touching a hot rod
Convection	Moving of air/liquid Hotter rises Less hot(colder) sinks	Boiling waterWindMagma inside the earth
Radiation	Transfer by waves No contact	> Sun > Radiator > microwave

Questions 1

Instructions: Label the picture as Conduction, Convection or Radiation



Warn food in a microwave



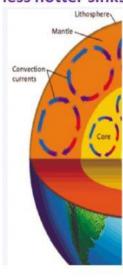
The hot air from the hairdryer rises and as it cool down sinks



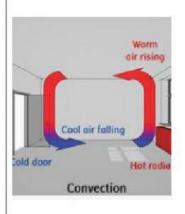
Pan on a stove



Hot magma rises and less hotter sinks



Heat rises - cold sinks



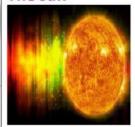
Hotter Magma rises and less hotter sinks



Circulation of air

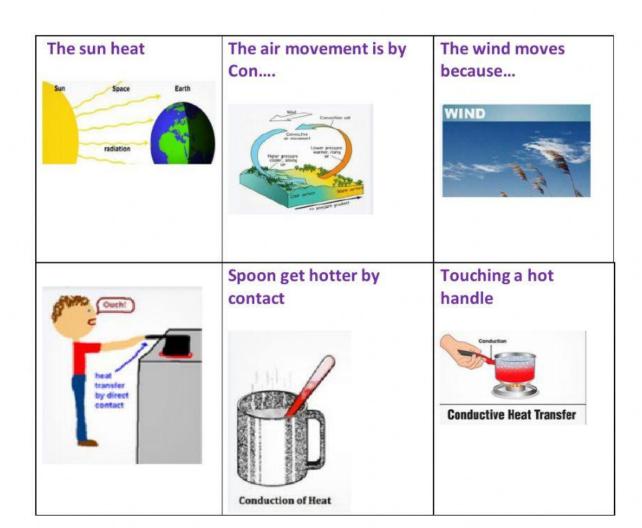


The sun



Electromagnetic radiation





Questions 2

The first statement of the 2nd law of thermodynamics - heat flows spontaneously from a hot to a cold body.

It tells us that an ice cube must melt on a **hot** day, rather than becoming colder. **In other words**, the ice cube will **not** give away energy to a hotter object and become colder (**this will not make any sense**)

Instructions: Use the above paragraph to complete the sentences

of the 2nd law	of thermo	odynamics
		The state of the s
body.		
cube mu	ıst	on
will	give _	
object and b	ecome	(this
anv)	
	spontane body. cube muner than becor	cube must ner than becoming colde will give _ _ object and become

Question 3

If you are present in class

You need to bring a composition notebook every day.

Make a drawing of a conduction, convection, and radiation example.