Conduction, convection, and Radiation

Last Name:	First	Period:	Date:
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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 The hot air from the Pan on a stove hairdryer rises and as it microwave cool down sinks Hot magma rises and Heat rises - cold sinks **Hotter Magma rises** less hotter sinks and less hotter sinks Worm Convection air rising Cool air falling old door Hot radio Convection Circulation of air Electromagnetic The sun radiation Convection

The sun heat Con.... The wind moves because... WIND Spoon get hotter by contact Conductive Heat Transfer Conductive Heat Transfer

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