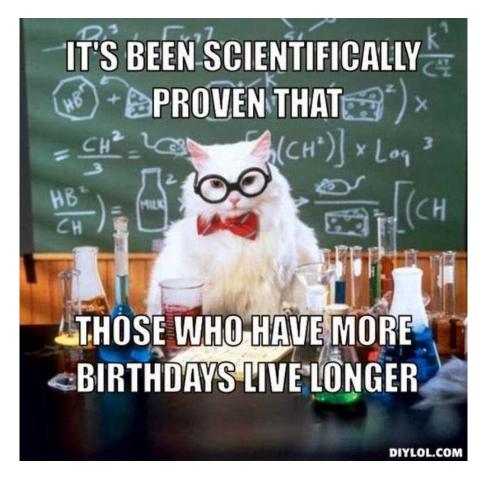
BEFORE CLASS BEGINS...

- □ Grab the paper at the door.
- Pull out Page 15. Hold onto it.
- Pull out HW Chapter 11.2.
 Make sure that your name, date, and block are on it.
- Don't forget Quiz is on Friday.



PAGE 15 - THERMAL ENERGY TRANSFER

8TH GRADE SCIENCE

PAGE 15 ONLINE ACTIVITY

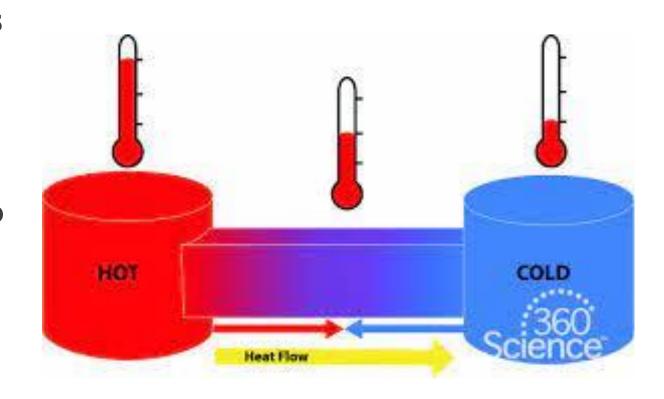
Composativaly the real contains

Log onto LMS and click the link, called Page 15 Online Activity.

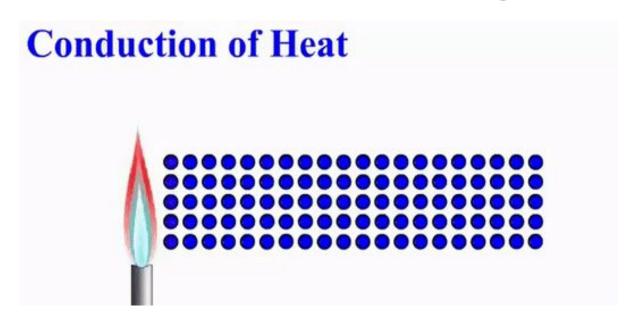
Scientist:	I	Date:	Block:	- 15	
	8th Grade Unit 2: The Physical Thermal Ene	Properties of M	atter	15	
Online Activity					
Directions: Log on	to the LMS. Select the link call activity and fill in the g			rough the	
	The energy of \mathbf{m}	otion is called			
	1				
	It is meas	ured as –			
	<u> </u>				
	2				
	Which determine	nes an object's			
	+	× .			
	3				
It is found in	cup of water and a pool.		Which flows from		

HEAT

- Heat is thermal energy that is moving or is capable of moving.
- Thermal energy transfer is a process that occurs, when two systems interact.
- Thermal energy transfer is also referred to as heat transfer.



- ☐ There are three thermal energy transfer methods:
 - Conduction
 - ✓ The transfer of heat through direct touch





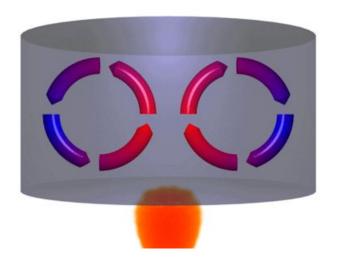
- There are three thermal energy transfer methods:
 - Convection
 - ✓ The transfer of heat by the motion of fluid molecules, including a liquid or a gas.



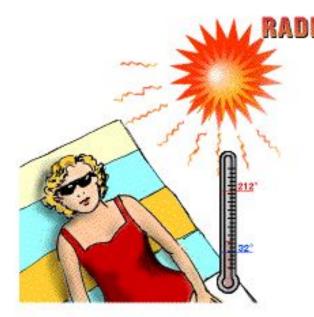
- There are three thermal energy transfer methods:
 - Convection
 - ✓ During convection, heat is transferred through the circular movement of particles, which creates a convection current.

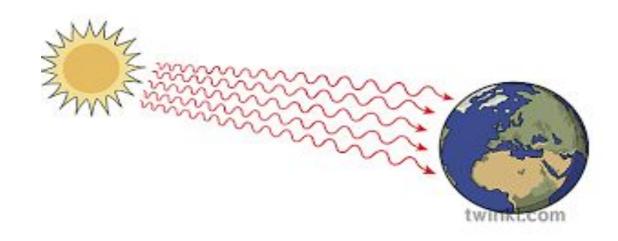


- There are three thermal energy transfer methods:
 - Convection
 - ✓ In a convection current, warm particle rise, while cool particles fall, creating the circular current.



- There are three thermal energy transfer methods:
 - Radiation
 - **✓** The transfer of heat through indirect contact



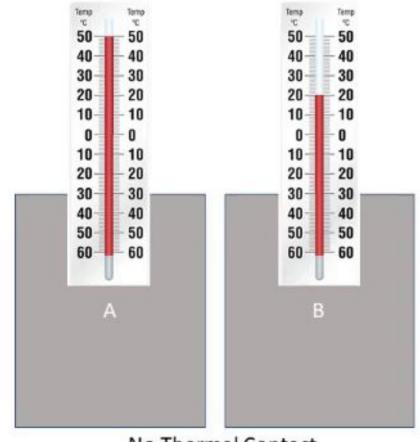


VIDEO LINK

https://www.youtube.com/watch?v=HpCvW uvCUoA

HEAT TRANSFER

- During thermal energy transfer, heat moves from the warmer to the cooler object.
- Thermal energy transfer continues until thermal equilibrium is reached.
- Thermal equilibrium is a condition, in which two objects have the same temperature.



No Thermal Contact

PRACTICE PROBLEMS

Complete 17 – 25, using the sentence stem.

Practice Problems

Directions: Examine each scenario, then determine the thermal energy transfer method, using the sentence stem

No	Scenario	Answer
17	Warm and Cool Currents	This is an example of (<u>conduction OR convection OR</u> <u>radiation</u>) because the thermal energy transfer method is (<u>indirect contact OR direct contact OR a circular current</u>).
18	Heat in Spoon	This is an example of (<u>conduction OR convection OR</u> <u>radiation</u>) because the thermal energy transfer method is (<u>indirect contact OR direct contact OR a circular current</u>).