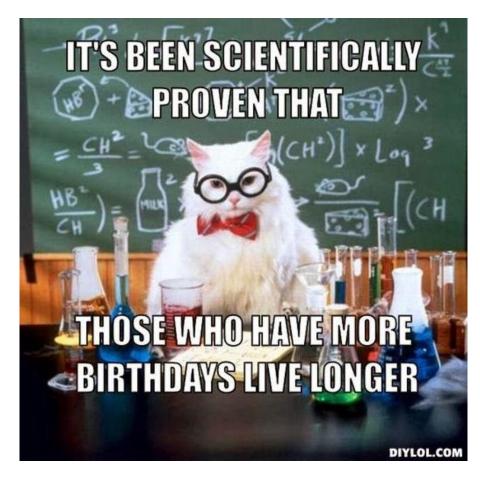
BEFORE CLASS BEGINS...

- □ 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

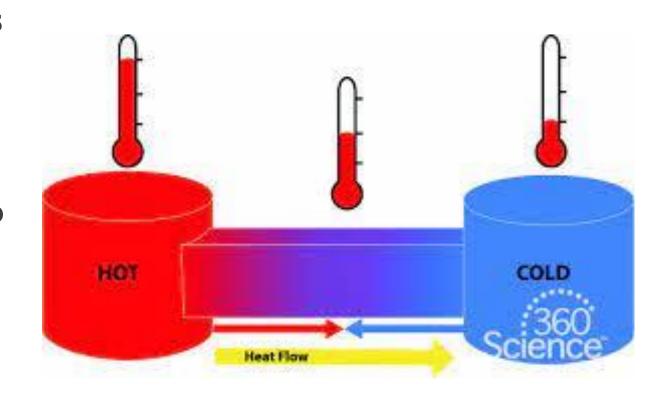
Composativaly the real contains

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

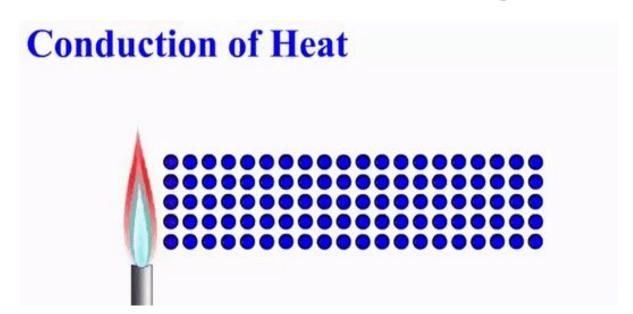
Scientist:	Date:		Block:	_ 15
	8th Grade Scien Unit 2: The Physical Prope Thermal Energy T	erties of Matter		15
Online Activity	223			
Directions: Log or	nto the LMS. Select the link called <u>Pa</u> activity and fill in the graphic			hrough the
	The energy of motion :	is called		
	1			
	It is measured a	as —		
	*		$\overline{}$	
	2			
	Which determines an	ı object's		
			_	
	3			
It is found in	a cup of water and a pool.	Whi	ch flows from	

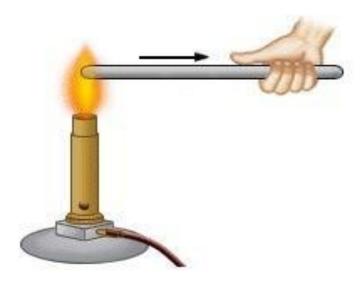
HEAT

- 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.

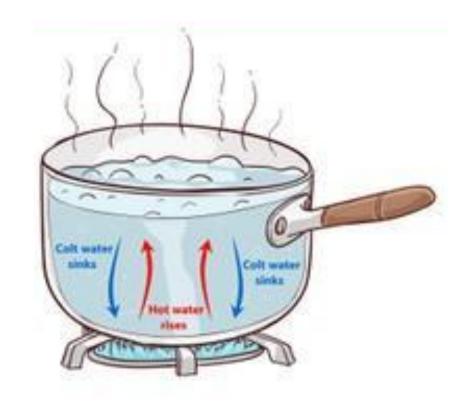


- ☐ There are three thermal energy transfer methods:
 - Conduction
 - ✓ The transfer of heat through direct touch





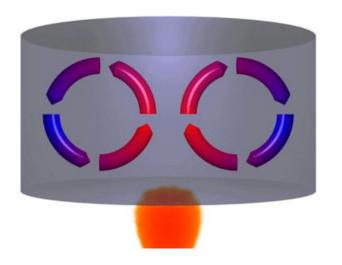
- There are three thermal energy transfer methods:
 - Convection
 - ✓ The transfer of heat by the motion of fluid molecules, including a liquid or a gas.



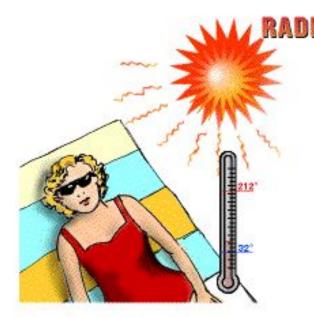
- There are three thermal energy transfer methods:
 - Convection
 - ✓ During convection, heat is transferred through the circular movement of particles, which creates a convection current.

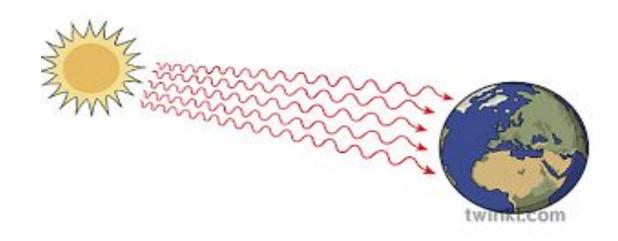


- There are three thermal energy transfer methods:
 - Convection
 - ✓ In a convection current, warm particle rise, while cool particles fall, creating the circular current.



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



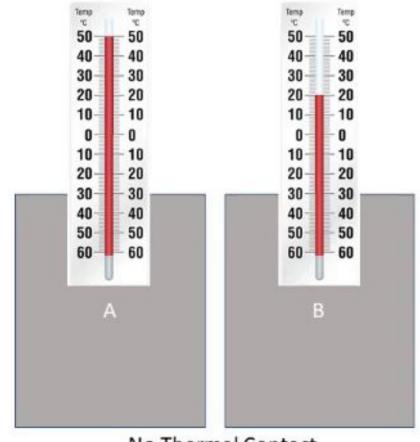


VIDEO LINK

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>).