

Sep 20-9:10 PM

Name some things that are heated:
Air, House, Car, Water,
Stove, Pipes, Us (people),
heater, computer, animals, dragos essentially sun, heat lamp,

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There are 3 types of heat transfer:

- Conduction
- Convection
- Radiation

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Before we can define these words, we need to know the difference between a solid, liquid, and gas.

Turn to your neighbor and discuss: How do you know if something is solid? How do you know if something is liquid? How do you know if something is a gas?

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Solid: Keep their shape. Example: desk
Liquid: Take the shape of their container.
Example: water
Gas: No shape. Example: air

WHY does this happen? Take
H₂O for example.
How are ice, water, and water
vapor different?

The red balls represent

ATOMS

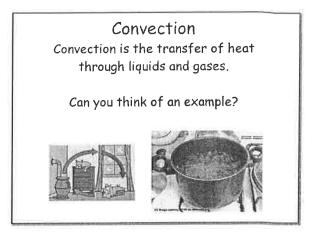
GAS

LIQUID

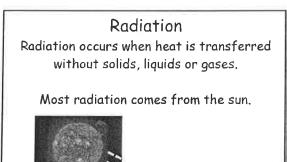
SOLID

Conduction Conduction is the transfer of heat through a solid material. Can you think of an example?

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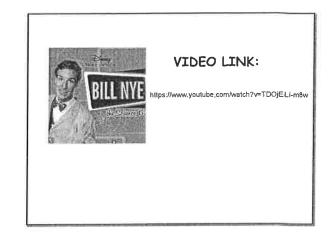


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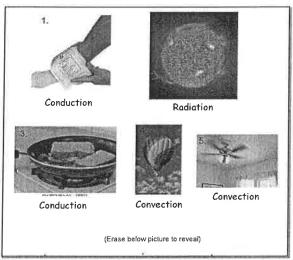




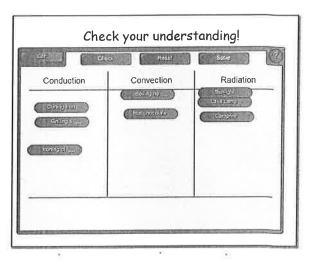
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Sep 14-8:54 AM

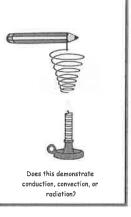


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ConductionconvectionradiationSMARTpresentationMiddleSchoolversion.noteMprik16, 2015

Try This!

Cut a piece of paper into a spiral and attach a string to one end. Tie the string to the end of a pencil. Hold the spiral above a heat source and watch what happens!



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Why do I care about heat transfer?

- Warm or cool your house
- Walking on the street in the summer barefoot
- Dive into a swimming pool in the winter
- How should I dress today?
- Grabbing a hot dish out of the oven







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Homework:

Heat Transfer Worksheet (Available for free download at this link)



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If you are satisfied with this lesson, please leave positive feedback! Thanks!



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Sep 15-11:12 AM