

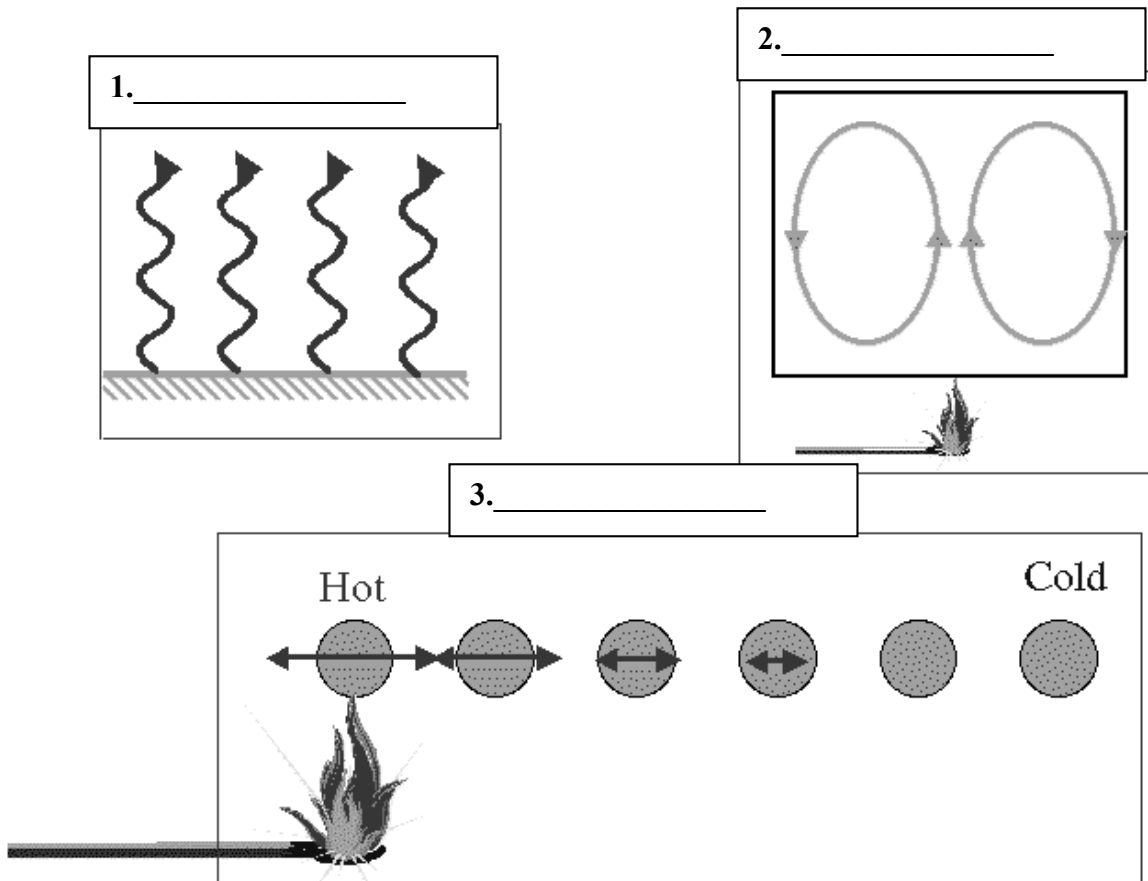
Name: _____ Date: _____ Period: _____

Notes: Ways to transfer Energy.

Conduction: the transfer of energy as h _____ between p _____ as they c _____ in the substance or between two objects.

Convection: the transfer of energy by the movement of l _____ or g _____ with d _____ temperatures.

Radiation: the transfer of energy by e _____ waves. It _____ involve the movement of m _____, so it can occur in a v _____ (like outer space).



Self Check: Use conduction, convection and radiation to answer the following.

- | | | | |
|----------|---------------------------------|----------|------------------------------|
| 1. _____ | The way sunlight gets to Earth. | 5. _____ | Metal spoon getting hot. |
| 2. _____ | Getting warm around a campfire. | 6. _____ | Hot air rising. |
| 3. _____ | Heat inside the Earth. | 7. _____ | Pan getting hot on the stove |
| 4. _____ | Water moving in a boiling pot. | 8. _____ | Doesn't need matter. |

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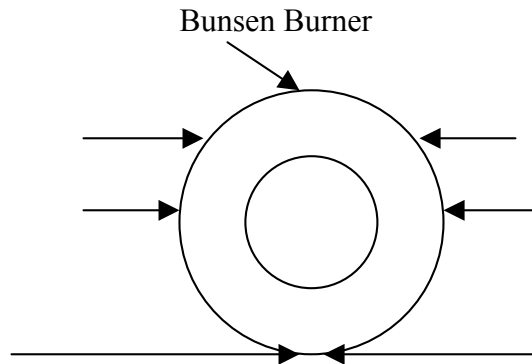
Lab Partner: _____

Lab: Wax and Ring

Purpose: to investigate the way that heat energy is transferred in a metal ring.

Materials: Ring with drops of wax, Ring stand, Bunsen burner.

Diagram:



Procedure:

1. Set up apparatus.
2. Observe wax melting around ring and record time on the black arrows.
3. Clean up and answer questions.

Questions:

1. What did you observe?
2. How long did it take for the wax to melt around the entire ring?
3. What is the source of energy (1 of the 8 forms of energy) that is causing the wax to melt?
4. How is the energy getting transmitted to the wax to make it melt?

5. Are there any methods transfer of energy transfer not represented in this lab? _____
Describe where you see it in the lab for the forms. Put N/A if there isn't one.

Conduction _____

Convection _____

Radiation _____