**Name:** _____ **Class:** _____

# Heat Transfer Web Quest

**Directions:** Click on the corresponding website link and read the page to answer each set of questions.

**PART ONE: HEAT TRANSFER – Go to the website below.**

**http://www.wisc-online.com/Objects/ViewObject.aspx?ID=SCE304** Scroll down and click on the begin button.

1. Conduction is the transfer of heat between _____.

2. Why does the hand need an oven mitt in order to pick up the pot from the stove?

_____

3. List four good conductors and four poor conductors:

| Good | Poor |
|---|---|
| 1. _____ | 1. _____ |
| 2. _____ | 2. _____ |
| 3. _____ | 3. _____ |
| 4. _____ | 4. _____ |

4. Convection is the up and down movement of _____ and _____ caused by heat transfer.

5. What happens to the air as the stove heats it?

_____

6. What happens to the air as it gets farther from the heat source?

_____

7. List four examples of convection:

A. _____
B. _____
C. _____
D. _____

8. When _____ travel through space it is called radiation.

9. What happens to the temperature of the house as the sun's radiant energy touches it?

_____

10. List three examples of radiation:

A. _____
B. _____
C. _____

**PART TWO:**

11. Which picture is showing conduction, radiation, and convection?

A. _____ B. _____ C. _____

**PART THREE:**
Look at the website page below for ideas on how heat transfer is seen in our everyday lives.

http://www.lowes.com/cd_Understand+Heat+Transfer+and+Insulation_974680410_

12. After you read this web page, list 5 ways in which you can protect your home from escaping heat or from too much heat coming in during the summer.

A._____

B. _____

C. _____

D._____

E._____

**PART FOUR**: Go to this website: http://www.pnm.com/save/energy_tips_all_year.htm

List at least 10 ways in which you can save heat energy in different rooms in your home. Explain how each way can actually save heat energy.

| WAYS TO SAVE HEAT ENERGY | HOW CAN THIS METHOD SAVE HEAT ENERGY? |
|---|---|
| A._____ | _____ |
| B. _____ | _____ |
| C._____ | _____ |
| D._____ | _____ |
| E. _____ | _____ |
| F. _____ | _____ |
| G._____ | _____ |
| H. _____ | _____ |
| I. _____ | _____ |
| J. _____ | _____ |