

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:

<u>Good</u>	<u>Poor</u>
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://life.gaiam.com/article/5-tricks-reduce-your-homes-heat-loss>

http://www.lowes.com/cd_Understand+Heat+Transfer+and+Insulation_974680410

<http://life.gaiam.com/article/5-tricks-reduce-your-homes-heat-loss>

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

<https://www.nachi.org/increasing-home-energy-efficiency-client.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. _____ | _____ |