

Thermal Energy Home Challenge

Group member's names:

1.)

2.)

3.)

Question objectives: These questions will help you reflect upon the success of your project and look for ways to improve the results of future thermal energy investigations.

1.) What materials and/or design techniques did your group use to reduce energy transfer by conduction? You can answer the question using complete sentences and labeled diagrams. 2 marks

Your name:

2.) What materials and/or design techniques did your group use to reduce energy transfer by convection? You can answer the question using complete sentences and labeled diagrams. 2 marks

3.) What materials and/or design techniques did your group use to reduce energy transfer by radiation? You can answer the question using complete sentences and labeled diagrams. 2 marks

4.) Describe the results of your experiment. How well did your house retain its thermal energy? What was the difference between the starting temperature and the final temperature after the time internal? (*make sure you staple your results table to the question sheet*).

5.) Why is it important to have homes adequately insulated in Alberta? How is this important for the environment? (2 marks)

6.) After conducting the experiment, what changes would you make to your house to improve on its heat retaining ability?

7.) What did you learn from this activity?

- 8.) How well did your group work together?
- 9.) What other areas would you like to explore?

10.) What improvements could be made to this activity to make it better, or more challenging?

11.) Attach your thermograph picture below:

12.) Attach your Time vs Temperature graph to these questions.