Phys 220 – Solar Ovens

Materials and Equipment: pizza boxes, card board boxes of various size, newspaper, bubble wrap, sheet protectors, saran wrap, aluminum foil, black construction paper, packing tape, marshmallows, graham crackers, chocolate.

Challenge: Create a solar oven from the materials list that will successfully melt a S'more. If your oven succeeds, you will earn 30% extra credit on this lab.

Analyze:

1. Explain how a solar over works.
2. Describe your final design
3. Explain the function of each piece of your oven.
4. What are potential problems with your oven?
5. How can you modify it to increase the temperature inside?