Homework Tonight:

Next class you will be having a competition to see who can keep water warm for the longest. You will design an apparatus to insulate a cup with hot water. **The goal is to keep the water as hot as possible after 20 minutes.** Your grade will be based on how little the temperature of your water changed.

* Your device must be no larger than 20cm x 20cm x 20cm (must fit a 12 oz Styrofoam cup)
* It cannot use any heat source of its own
* You can use any materials from home
* The device must be already assembled and ready to test when you walk into class

Research!!!- In order to create the best design, research the following questions. Use your notes and readings to find the answers.

1. Which of the three means of heat transfer do you think is most important to minimize in this contest in order to win? Explain why.
2. What is a Conductor? What is an Insulator? Give examples of each and explain which ones would be the best materials to keep your water warm.
3. List at least 3 materials that you are considering using, and why you want to use them.

\*\*If you have not done the research or brought in materials, you will not participate and have an alternate essay to complete.

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