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17.0.A Daily Outline

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Purpose:

- Applying concepts of conduction, convection, radiation to a consumer product claim

Board

Agenda: Share your descriptions of what convection and radiation are as ways to “move heat”
Investigate consumer product claim
~4:15 research conference [skipped this; would have interrupted flow of action]
Continued investigation
As you leave, I will trade you the exam redo assignment for your scored exam one.

Sit with your partners from Tuesday. Seven tables in play.

Pick up your recorder report from Tuesday. [placed at table]

Inspect the consumer product

I'll check for your notes due today. [failed to do]

(Just put nametags out without saying make them. See if they do.) [forgot to check]

DON'T FORGET TO CLAP

Materials

Name tags (4 per table) – note, did they put them on?

Thawmagic and MagicThaw products placed at each table, along with boxes and “instructions”

Returns

- Exam one

Distributions

Starting Comments 1 minute max

- Select someone to clap
- Quickly through agenda
- Set the challenge

- 1) Figure out (a) does it work, and then (b) how does it work.
- 2) Design controlled experiments.
- 3) If you need materials you don't see, ask.
- 4) Clear experiments with me or interns (safety)
- 5) Keep good notes.

Homework: co-author a "professional product review" about its efficacy and value

Observations on the day:

- Some groups, not all, shared definitions of convection and radiation, and wrote on recorder reports. Those who did wrote explanations that were not that great or distinct. So, this became a homework comment.
- Students were eager to jump in, discuss and argue, try things and think through ideas. Pushing them to make connections and think mechanistically was necessary.
- Someone suggested using the IR guns. Good idea, why didn't I think of that. That actually provided some very nice data.
- No time for a mid-class conference. That would have deadened the action. So, next class will be the research conference. This will allow production of posters and discussion. This also fits with the timing of having interns take a class.