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18.0.A Daily Outline

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Purpose:

- Synthesis of experiments for understanding how the MagicThaw works, applying concepts of conduction, convection, radiation to a consumer product claim
- Set up reading and discussion of other application contexts

Board

Sit with your partners from last week. Seven tables in play.

Turn in group product reviews at front table.

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

DON'T FORGET TO CLAPMaterials

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

Pull out materials from last class in case anyone needs to see it

Returns

- Recorder reports placed at tables, indicated by name cards. Shuffle the tables.

DistributionsStarting Comments 1 minute max

- Select someone to clap
- Status reports
- Quickly through agenda – research symposium and a homework assignment
- Exam redo still in process, as well as acknowledgement of other things you sent me

Assignment

You will be in new groups on Thursday when you arrive.

Read all 4 that I've given you (topics: firewalking, space station, home window design, ice production in 19th century). Identify and be prepared to discuss how any of the principles we have encountered so far in class appear in these applications. In one of the next classes, you will have a chance to discuss with your group and prepare a poster to share on the topic with everyone else.

New groups

Addison	Frost	Joncas	Price	Tamposi	
Arsenault	Koester	Sneeden	Witkiewicz	Graves	
Bouchard	Colaw	Sidney	Dwyer	Reisert	
Butler	Zukowski	Cappetta	Closson	Pettis	King

There is a consensus that the MagicThaw and Thawmatic do work – they help frozen things thaw quickly. The Research Symposium is about understanding how they work and whether they have unique properties.

I will help take notes on the board of potentially concluding or consensus observations. Do observation and inference list: we saw this; we think it tells us this

[I can help reinterpret observations and clarify claims or conclusions without just providing a complete description of the process. This is the middle ground between just giving a “here’s how it works and total discovery-based process, which may lose some people]

Research Symposium

- a) Preparation: 15 min or less

Review your experiments with your group. Identify the most critical or informative experiments you did. Assemble a poster that summarizes what you did and conclusions drawn (could be illustration, graphs, data, etc.). Identify who will present.

- b) Presentation: 5 min each group

Anyone may ask clarification questions or add a comment at any time.

At end of each presentation, I will write notes on board to summarize what we think we've learned.

- c) Synthesis: remaining time

Based on data, discuss and write one group answer for each question, using your best scientific understanding. (Recorder Report)

- (1) Describe how the Thawmatic/MagicThaw works to thaw meat, and why it enhances thawing relative to the normal kitchen practice of placing the meat on a serving plate. Cite the evidence that supports your description.
- (2) What characteristics of the Thawmatic/MagicThaw give it the ability to enhance the thawing rate of meat? Cite the evidence that supports your suggestions. You could invoke that it has certain magic characteristics if you have such evidence.