**Preparing for Your Final Exam**

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**Orientation**

In this activity, your team will prepare for the final exam by creating study questions for the final exam. Creating good practice questions requires a familiarity with thermodynamics that is different from just being able to solve problems. If your question makes it on the final exam, each member of your team will get an additional 5 points (~3% increase) on their final exam score, and the life-long bragging rights of having written part of the thermodynamics final exam for their own final.

**Learning Objectives**

1. Write one take-home quality thermodynamics final exam questions around topics that were covered sometime during the course.
2. Get feedback from your peers about the quality of your questions, and how to make them better.
3. Edit/update your final exam question, and work up a solution path/plan for how to solve them.

**Targeted Skills**

Bounding – recognizing the limits of application of knowledge

Summarizing – representing the whole in a condensed statement

Being Playful – seeking fun in experiences

1. Using the exam review slides or the topics listed on the course schedule, select a topic (or grouping of topics) that you want to explore for a final exam question.
2. As a team, come up with a real-world example of a context where your selected topic(s) would apply.

1. Within your chosen context, write a problem that would be appropriate for a take-home final exam in this class. It should stretch your current understanding, but be detailed enough to help the student connect to course knowledge to solve the problem.
2. Show your problem(s) to other groups and get their feedback on the following scale:

**Problem 1**

1 (too easy) 3 (just right) 5 (too hard)

1 (too easy) 3 (just right) 5 (too hard)

1 (too easy) 3 (just right) 5 (too hard)

**Problem 2**

1 (too easy) 3 (just right) 5 (too hard)

1 (too easy) 3 (just right) 5 (too hard)

1 (too easy) 3 (just right) 5 (too hard)

1. From teams that ranked your problems, get verbal feedback about how to make each problem better.
2. Write out your updated problem statement on a sheet of paper with the names of your team members on it. And give a brief explanation of how you would solve it.
3. Turn in your sheets (with names) to the instructor before you leave.
4. If you have time, do this for a second problem.