

COMBUSTION

L6: Make It Better

Guiding Question: What are two improvements we can make to our lab set-up to make it more efficient?

- **Do Now:**

- Cross off the “Do Now” box on page 8.
- Begin looking over the rubric and feedback on your lab write-up.

Guiding Question: What are two improvements we can make to our lab set-up to make it more efficient?

- **Do Now:**

- Answer your Guiding Question on page 8.

LAB REPORT FEEDBACK

- Purpose needs to be specific.
- List all materials.
 - Imagine you can only have the materials you list and can't get any others.
- List all procedure steps.
 - Someone else should be able to pick up this procedure and complete the lab in the exact same way you did.
- Be thorough in your analysis and conclusion.
 - Include calculations, sources of errors, and where it can be improved.

NOTES

Thermodynamics studies the movement of heat (energy)

- Some objects are able to move heat better (conduct) and some do not (insulate)
- The ability of an object to hold heat, but not get hot (or not get very cold) depends on its specific heat capacity, or ability to hold heat energy.

NOTES

- If an object has a lower heat capacity:
 - It tends to feel cooler, and heats up faster (metals)
 - Is a good conductor
- If an object has a higher heat capacity:
 - It tends to not feel hot or cold at room temperature and doesn't change temperature easy
 - It is a good insulator

NOTES

When redesigning you want to keep in mind your goal(s):

- Increase the efficiency of energy transfer
- Increase the accuracy of your measurements

HOMEWORK

Homework 2 Due Friday