COMBUSTION

L4: Light it Up

Guiding Question: What steps are required for experiment design?

- **Do Now:**
  - What do you think would produce the most amount of energy if burned (contains the most calories): a Cheeto, an almond, or a marshmallow?
    - DO NOT USE YOUR PHONES
    - Justify your answer

Guiding Question: What steps are required for experiment design?

- **Do Now (page 15):**
  - Under **Data**:
    - In the SIDEBAR, note what data you will need to collect during today's experiment.

NOTES

Experimental Design:

- Always determine your purpose: What problem are you trying to solve?
- Look at the materials you have available: What can help you solve this problem?

NOTES

Experimental Design:

- Decide HOW those materials could solve this problem
  - Do research to see how it might have been done before
  - Draw a diagram to help you visualize set up -- but remember this isn't art class

NOTES

Experimental Design:

- Decide your procedure -- What are the step-by-step instructions for the procedure so someone else can do it and *get the same results*.
  - These can start out as a set of planned steps, but you need to add in or change things as you complete the lab to give the most accurate procedure.
  - Do not erase anything -- line out with one ~~strikethrough~~ and correct it next to it.

NOTES

Experimental Design:

- Create a data table to collect as much data as possible -- If you can measure it or observe it, write it down!
  - What can we measure?
  - What is an observation?
- Everyone collects data as they go, no one can be left out. This will give you the most accurate depiction of your results.

HOMEWORK

- Homework 1 Due Friday