

Building models of molecules during combustion.

1. For each of the following compounds, write the formula, draw a 'molecular diagram', then build a model using the model building kits and take a cell phone picture of the model.
2. Using MS Word or Google Docs, 'paste' the images into document.. being sure to name each compound under the photo. (this document may be attached to the hand written document, or embedded into a notes document).
3. Build a model of the combustion process of propane. (i.e. go back to your propane model, and build 5 oxygen molecules and place them next to it, and take a photo.. Then take the propane and Oxygen's apart, take a photo all of the atoms separately, then reassemble those same atoms into the right number of CO₂ and water molecules. Title this document The Combustion of Propane; a love story¹.
4. Staple all pages together and hand them in (due the week of Sept 4th.)

Grading in Clark's Chemistry classes..

Stated objective is clearly described with summary of relevant physics topics to be explored	5	4	3	2	1	0
Overall clear progression of ideas	5	4	3	2	1	0
Accuracy of stated science, facts and math ²	5	4	3	2	1	0
Creativity in writing, diagrams, layout or presentation.	5	4	3	2	1	0
Professional appearance overall.	5	4	3	2	1	0

Note: scoring all 4s = 88% (B+).

/23 total

Key to scores.

5	A score of 5 indicates that the student exceeded the expectation.
4	A score of 4 indicates the student 'understood' the expectation, and did a pretty good job (like coming in 3 rd place at the track meet)
3	A score of 3 indicates that the student 'understood' the expectation, but only accomplished the minimal degree of accomplishment.
2	A score of 2 indicates there are major gaps or disconnects between the stated objective and what they delivered.
1/0	A score of 1 or zero indicates the student was completely disconnected from the assignment.



¹ Or something else, creative and funny.

² When appropriate