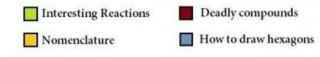
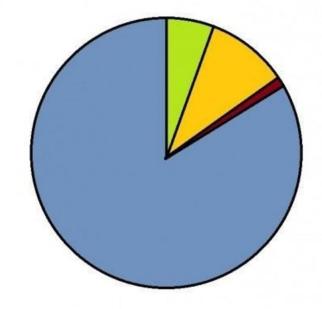
### Nov 11-15 Practice Problems

## Things I learned in Organic Chemistry

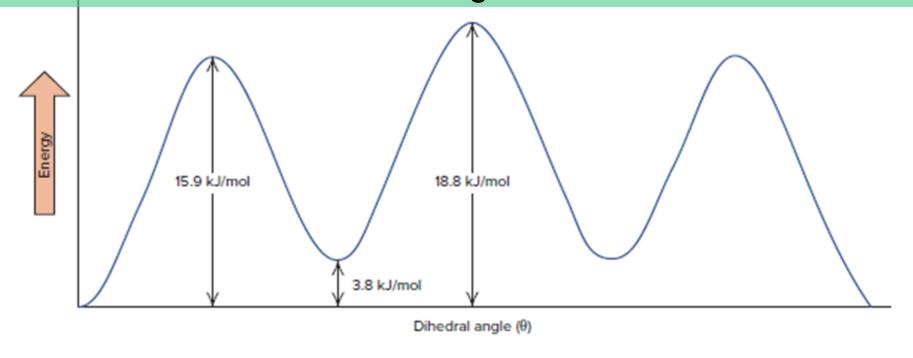


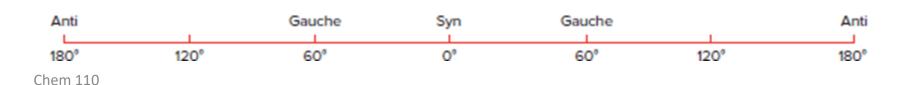


#### **Due dates:**

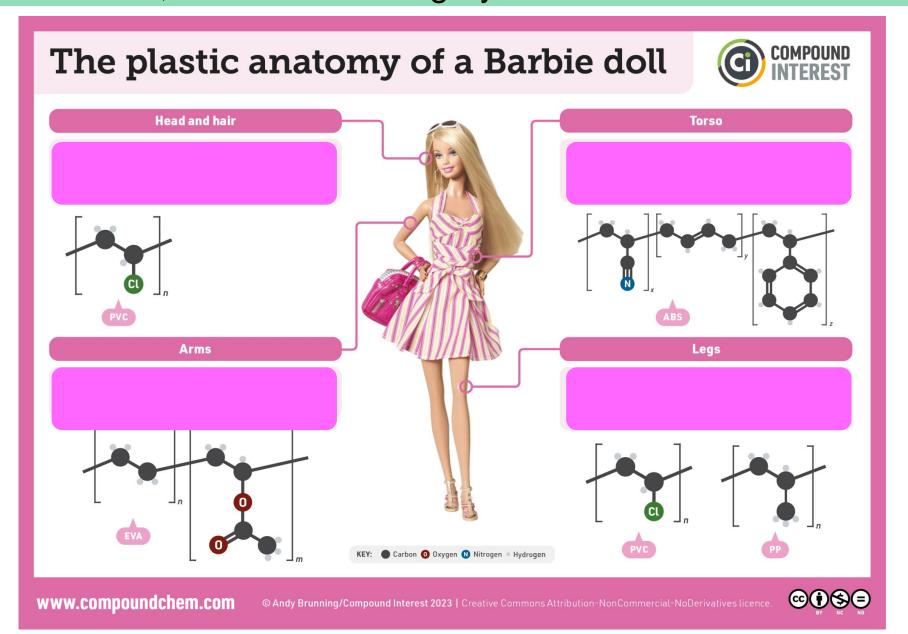
- Quiz 7 due Friday November 15<sup>th</sup> (on last week's content)
- Review 7 this week as normal
- Office hours: Tuesday 5:30 to 6:30pm PP104

Q1: Fill in all the associated Newman projections for butane. Ensure the correct projection matches with the associated potential energy. Draw the most stable conformation as a sawhorse diagram.





Q2: Circle and name the functional groups in these molecules. Specify primary, unsubstituted, etc. Note all the grey circles are carbon.



# Q3: Circle and name the functional groups in these molecules. Specify primary, unsubstituted, etc.

triglyceride

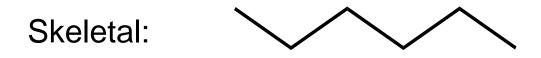
**Naproxen (Brand name Aleve)** 

Q4: Fill in the following for the pair of molecules. What kind of isomers are they?

Skeleton: OH

Molecular formula:

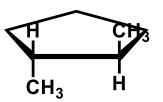
### Q5: Draw a corresponding isomer (as indicated) for each molecule below.



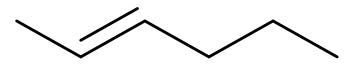
Enantiomer:

Positional:

Geometric:



## Q6: Name the following molecules using cis/trans or E/Z.



Q7: Decide whether the bromoalkanes (a) CH<sub>3</sub>CH<sub>2</sub>CHBrCH<sub>3</sub> and (b) CH<sub>3</sub>CHBrCH<sub>3</sub> are chiral.

### Q8: Indicate if the following molecules are R or S. Show your work!

