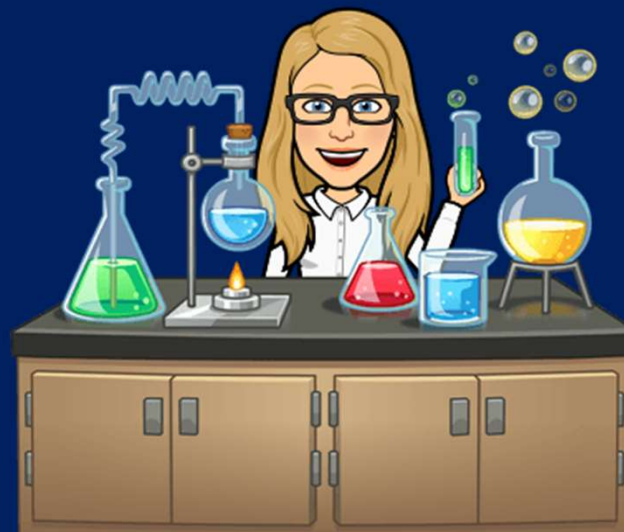



For voting, go to: <https://pollev.com/lauriestarke263>  
or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey  
Cal Poly Pomona


CHM 3140 Organic Chemistry I  
Announcements 1/28/25

# Physical Properties (Chapter 1, Step 3)

Daily To-Do	Flipped Lectures
<b>Step 3</b> <b>Read</b> <ul style="list-style-type: none"> <li>Read Klein Sections 1.12 – 1.14</li> <li>Watch flipped lecture</li> <li>Work through SkillBuilders 1.9 and 1.10</li> <li>Work on suggested <b>Chapter 1 EOC problems</b> or WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual).</li> </ul>	<b>Part 5 - Physical Properties of Organic Molecules</b> <b>40 minutes,</b> <i>skeleton notes pages 1-8 to 1-10</i> <b>Practice</b>  <b>Watch</b>

Molecular structure review:  
line drawings, lone pairs,  
charges **(Chapter 2, Step 1)**

# Today's Topics

Daily To-Do	Flipped Lectures
<b>Step 1</b> <b>Read</b> <ul style="list-style-type: none"> <li>Read Klein Sections 2.1, 2.2, 2.4, 2.5, 2.6</li> <li>Watch flipped lectures (Parts 1 &amp; 2)</li> <li>Work through SkillBuilders 2.1, 2.2, 2.3, 2.4</li> </ul>	<b>Part 1 - line drawings, formal charges and lone pairs</b> <b>25 minutes,</b> <i>skeleton notes pages 2-1 and 2-2</i> <b>Part 2 - Drawing Lewis Structures</b> <b>22 minutes,</b> <i>skeleton notes page 1-4</i> <b>Practice</b>  <b>Watch</b>

# Textbook problems: work on by hand, or through WileyPLUS

WP

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Module 2: Molecular Representations

DID YOU EVER WONDER...how new drugs are designed?

2.1: Molecular Representations (SkillBuilder 2.1) 30 pts

2.2 & 2.6: Drawing Bond-Line Structures & 3D Bond-Line Structures (SkillBuilder 2.2) 45 pts

2.4 & 2.5: Carbon Atoms with Formal Charges & Identifying Lone Pairs (SkillBuilders 2.3 & 2.4) 55 pts

2.7 & 2.8: Introduction to Resonance & Curved Arrows (SkillBuilder 2.5) 30 pts

2.9: Formal Charges (SkillBuilder 2.6) 40 pts

2.10: Drawing Resonance Structures via Pattern Recognition 50 pts

2.11: Assessing the Relative Importance of Resonance Structures (SkillBuilder 2.7) 40 pts

2.12: The Resonance Hybrid (SkillBuilder 2.8) 15 pts

2.3 Functional Groups & 2.13: Delocalized and Localized Lone Pairs (SkillBuilder 2.9) 20 pts

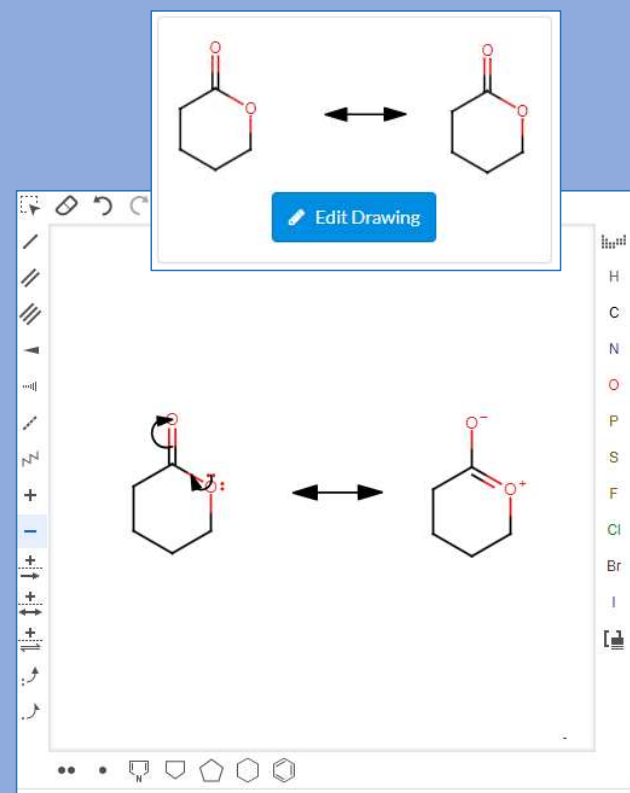
End of Chapter Problems: Chapter 2 155 pts

in-chapter textbook problems

EOC textbook problems

## Exam I assignments\*

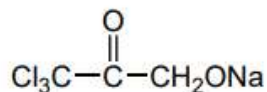
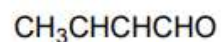
SkillBuilder/EOC Ch.1	7
SkillBuilder/EOC Ch.2	7
SkillBuilder/EOC Ch.3	7



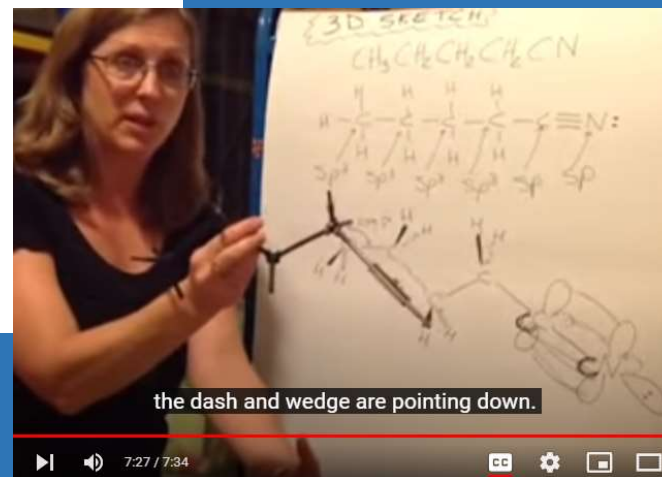
California State Polytechnic University, Pomona  
Organic Chemistry I, CHM 3140, Dr. Laurie S. Starkey  
**Lewis Structure and 3-D Sketch Homework**

Name: \_\_\_\_\_ Section: \_\_\_\_\_ (day/time)

For each of the following compounds, draw a 3-dimensional sketch, using dashes and wedges. **Position the molecule such that the maximum number of atoms are located in the plane of the page.** Be sure to show all atoms (no line drawings), to draw pi bonds (with sets of overlapping p orbitals) and to include the orientation of lone pairs of electrons on oxygen and nitrogen.



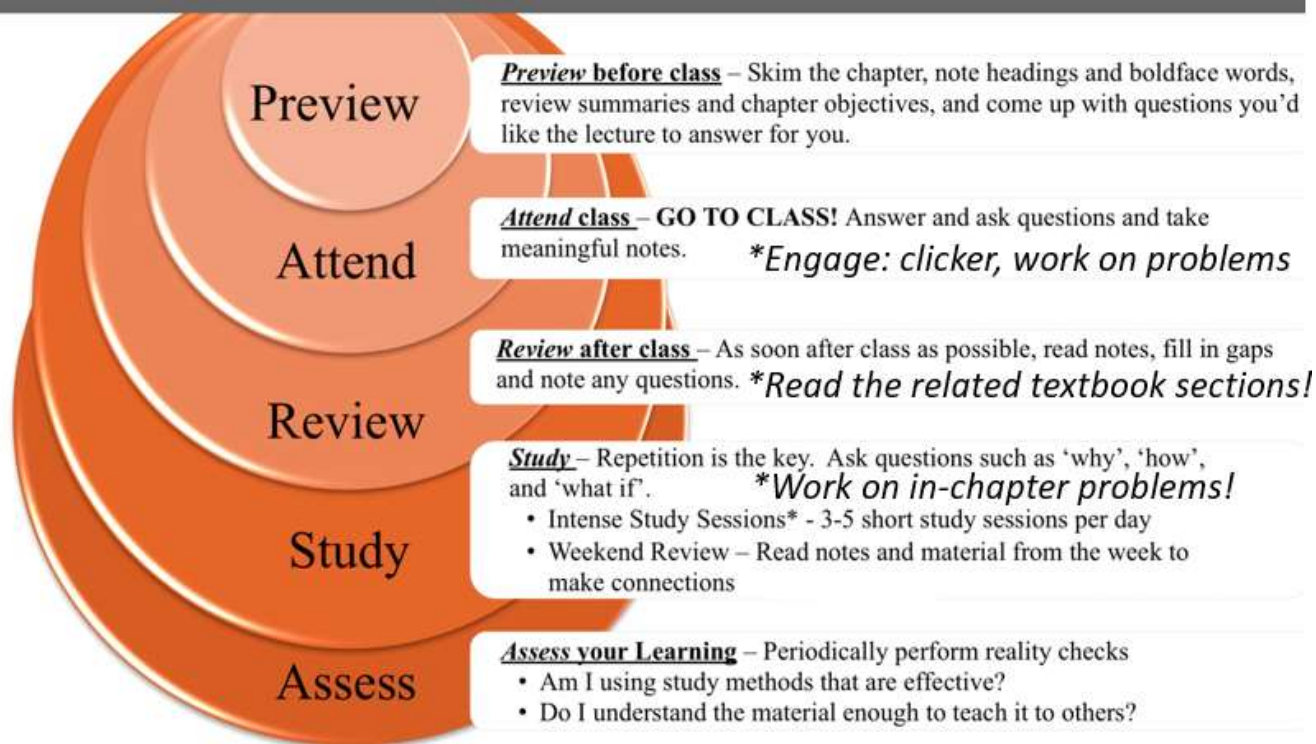
Links to Answer Key  
and Video Solutions  
provided in  
Gradescope



3D Sketch  
“Free Red Ink”  
Homework  
due Fri. 1/31



## The Study Cycle



## Studying 1+ hour per day...

- Study spot?
- Distractions?
- Effective use of Study Time?

The Study Cycle as presented to the Louisiana State Univ. students seeking advice from the Center for Academic Success.

(\*Notes added by Laurie Starkey)

Elzbieta Cook; Eugene Kennedy; Sandra Y.

McGuire; *J. Chem. Educ.* **2013**, 90, 961-967.

DOI: 10.1021/ed300686h Copyright © 2013

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### \*Intense Study Sessions

1	<b>Set a Goal</b>	(1-2 min)	<b>Decide what you want to accomplish in your study session</b>
2	<b>Study with Focus</b>	(30-50 min)	<b>Interact with material</b> - organize, concept map, summarize, process, re-read, fill-in notes, reflect, etc.
3	<b>Reward Yourself</b>	(10-15 min)	<b>Take a break</b> - call a friend, play a short game, get a snack
4	<b>Review</b>	(5 min)	<b>Go over what you just studied</b>