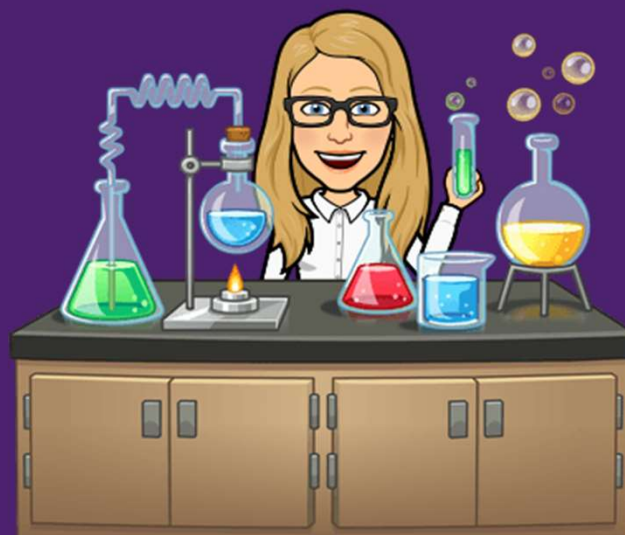


For voting, go to: <https://pollev.com/lauriestarke263>
or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3140 Organic Chemistry I
Announcements 1/23/25

Today's Topics (Chapter 1, Step 2)

Hybridization and 3D Shapes

Daily To-Do

Flipped Lectures

Step 2

- Read Klein Sections 1.7 – 1.11
- Watch flipped lectures (Parts 1 & 2)
- Work through **SkillBuilders 1.7 & 1.8**
- 3D sketch homework (submit to [Gradescope](#))

Part 3 - Bonding and Hybridization

40 minutes, *skeleton notes* pages 1-5 to 1-7

Part 4 - 3D Sketches

24 minutes, *skeleton notes* pages 1-7 to 1-8

Tracking Our Progress

*On Tuesday: finishing Chapter 1,
and starting Chapter 2!*

CHM 3140 Organic Chemistry I, Dr. Laurie S. Starkey, Spring 2025
Tentative Schedule (Chapter and Worksheet/Step # given for each day)

Week	Mon	Tues	Wed	Thurs	Fri
1	1/20	1/21 Ch. 1 #1	1/22	1/23 Ch. 1 #2	1/24
2	1/27	1/28 Ch.1 #3 Ch.2 #1	1/29 You are here	1/30 Ch. 2 #2	1/31
3	2/3	2/4 Ch. 3 #1		2/6 Ch. 3 #2	2/7
4	2/10	2/11 Exam Review	2/12	2/13 Exam I	2/14

<p>OLC #1</p> <p>"Guardians of the O-Chem Galaxy"</p> <p>Dr. Starkey Chris Pratt Wonder Woman Billy Bronco</p>	<p>OLC #2</p> <p>Shelby Seely Kristi Jean Angela Gotingco</p>	<p>OLC #3</p> <p>"Otter do better Earle else"</p> <p>Tori Garcia Sabrina Ling Julia Portales Cynthia Rosenblatt</p>	<p>OLC #4</p> <p>Samantha alba</p> <p>Your name here!</p>
<p>OLC #5</p> <p>Karrisa Sugita Kieana Shao Jenny Silva</p>	<p>OLC #6</p> <p>Fariha Shahid Jessica Ma Paula Truong</p>	<p>OLC #7</p> <p>Angeles Martinez</p>	<p>OLC #8</p> <p>Claudio Chai</p>
<p>OLC #9</p> <p>Sarah Anderson Jason Lee Samantha Alba Ethan Chavarin</p>	<p>OLC #10</p> <p>Erika Smith Ashley Cea Molly Forsyth</p>	<p>OLC #11</p> <p>Catherine Murrey Sara Kapitan</p>	<p>OLC #12</p> <p>Your name here!</p>
OLC #13	OLC #14	OLC #15	OLC #16

Take a picture each week for OLC report, via Gradescope. Ten or more OLC meetings earns maximum credit (10 points).

OLC Rosters

Groups are forming!

- Add your name, or...
- Post to Discord, or...
- Canvas discussion board

CHM 3140 Course Links

- [Gradescope](#) (log in with School Credentials)
- [Canvas](#) (see Modules for weekly activities)
- [Zoom link](#) (Jan. 24 - Feb. 10, ID 867 2734 8111)
- [Office Hours Zoom](#) ([I am here to help!](#)) you can use [Calendly](#) to sign up for office hours - not required, but helps us both plan
- [OLC rosters](#) (study group sign-ups) ←
- [Course Padlet](#) (meet your classmates!)
- [Discord server](#) ([invite link](#)) (course Q&A, discussions)

Gradescope: First 3 assignments are posted *log in with *School Credentials**

<u>OLC - Week 1/2</u>	1.0	Complete report asap after OLC meeting. Must be submitted every week (by Sunday for the meeting in the prior week)
<u>3D Sketch</u>	3.0	First "Free Red Ink" Homework has a due date, but late work is accepted (up until Exam 1 date)
<u>FridayFive Week1 - Padlet Introduction</u>	4.0	Must be submitted every week (by Friday of the following week)

Log In with your Gradescope account

EMAIL

PASSWORD

☐ Remember me [Forgot your password?](#)

Log In

Or log in with

☒ School Credentials ☐ Google

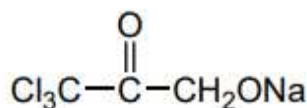
☐ Remember me [click here](#)

FridayFive and OLC Reports are due every week – set a reminder!

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

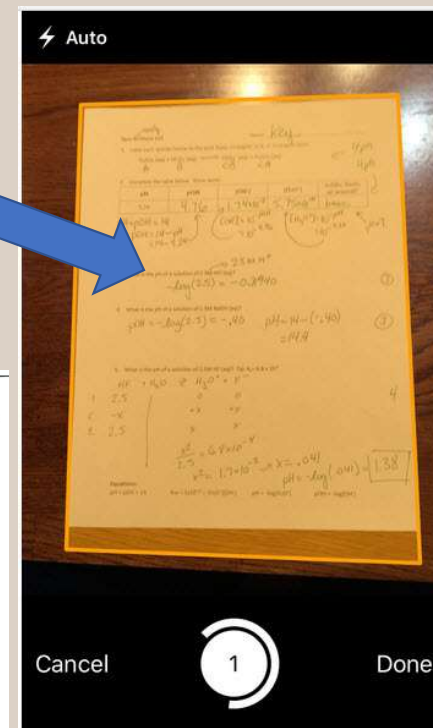
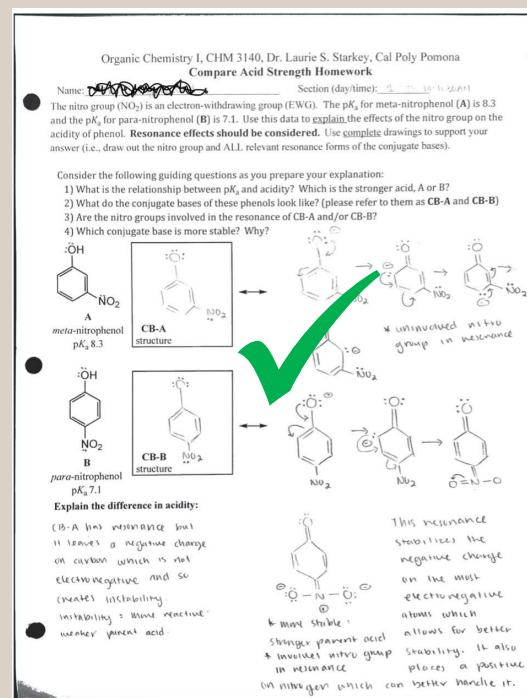
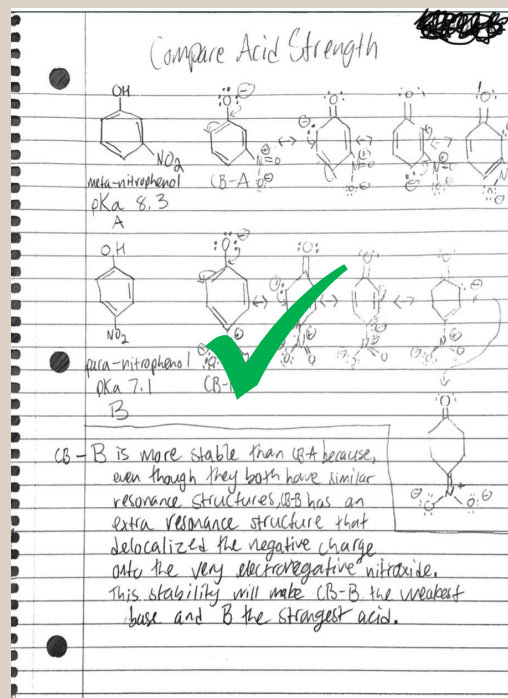
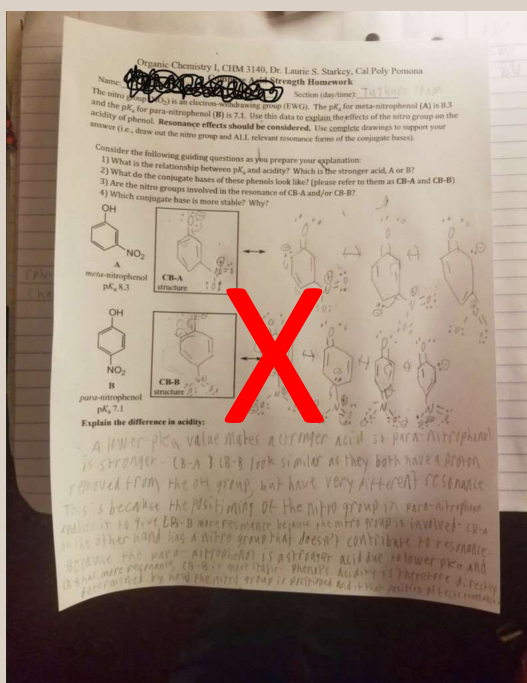
Name: _____ Section: _____ (day/time)

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.



3D Sketch “Free Red Ink” Homework

Genius Scan – please use if your scanning app does not easily crop and apply black & white filter



500 Total Course Points

Exam I assignments*		Exam II assignments*		Exam III assignments*		Final assignments*		<div>Homework Course Points</div> <div>125 (25%)</div> <div>*assignments due no later than date of each exam</div>
SkillBuilder/EOC Ch.1	7	SkillBuilder/EOC Ch.4	8	SkillBuilder/EOC Ch.6	5	SkillBuilder/EOC Ch.8	12	
SkillBuilder/EOC Ch.2	7	SkillBuilder/EOC Ch.5	8	SkillBuilder/EOC Ch.7-1	8	SkillBuilder/EOC Ch.9	5	
SkillBuilder/EOC Ch.3	7	SkillBuilder/EOC Ch.15	5	SkillBuilder/EOC Ch.7-2	8	SkillBuilder/EOC Ch.10	5	
						SkillBuilder/EOC Ch.11	5	
"Free red ink" homework		"Free red ink" homework		"Free red ink" homework		"Free red ink" homework		
3D Sketch	3	Newman Proj.	3	NMR Spectra x3	3	Alkene Predict #1	4	
Resonance	3	Canvas quiz - R/S	3	Sn1 v Sn2	3	Alkene Predict #2	4	
Acid Strength	3	Canvas quiz - Compare	3	Alcohol Dehydrate	3			
							35	
	30		30		30			
FridayFives (4 pts each)		OLC reports (1 pt each)		Exam Wrappers		Friday5 and OLC reports are due every week (firm due dates)		Study/Reflection Course Points
(13+ reports earns maximum credit)	52	(10+ reports earns maximum credit)	10	(4 pts each, drop one)	8			
				Exam Corrections	8			
				(4 pts each, drop one)				75 (15%)
Midterm Exams x3		Final Exam						Midterm Exams: 200 (40%) Final: 100 (20%)
	200	(100 pts each, drop lowest)			100	20 point NMR + 150 pt final	Points to be scaled down to 100 max (170 x 0.6)	

Suggested Textbook Problems?

see “EOC/SkillBuilders” Handout

Suggested Ch. 1 EOC problems, in addition to in-chapter problems 1-14, 18-31 (the in-chapter problems include SkillBuilders 1.1 – 1.5 and 1.7 – 1.10) **EOC = End-of-Chapter problems**

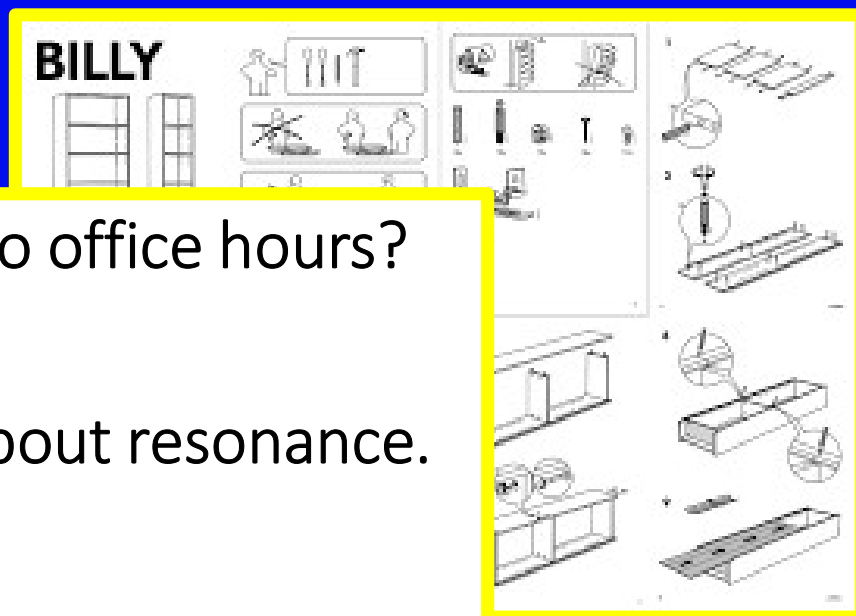
32a-d	40a-e	48	56
33a-d	41a-e	49a-c	57
34ab	42a-c	50a-h	58a-d
35ab	43a-h	51a-d	59
36	44a-h	52ab	60
37	45a-d	53	61
38	46	54a-c	62
39a-f	47	55	63-72 (ACS)

Just bought a log cabin home from Ikea



why you should
read customer
reviews before
ordering

Speaking of IKEA...



Student (after failing Exam I): Can I come to office hours?
I really need help with resonance!

Dr. Starkey: Of course! Chapter 2 is all about resonance.
How much of Chapter 2 did you read?

Student: I didn't read Chapter 2.

Dr. Starkey: I think I've diagnosed the problem...

*Don't try to build IKEA furniture without
a manual, and don't try to learn Organic
Chemistry without reading the textbook!*