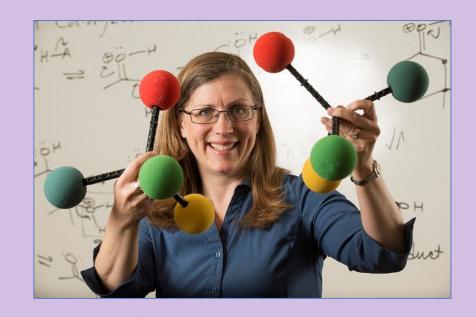
For voting, go to: https://pollev.com/lauriestarke263 or text LAURIESTARKE263 to 37607 to join poll





Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3140 Organic Chemistry I Announcements 3/4/25

Today's Topic: Stereochemistry (Chapter 5, Step 3)

Daily To-Do

Flipped Lectures

Step 3

- Read Klein Chapter 5, sections 5.4, 5.10 and 5.11
- Watch flipped lecture (Part 3)
- Work through SkillBuilders 5.5 and 5.9
- Take Canvas quizzes for extra practice and course credit. Two quizzes are available: R/S Quiz, Compare Quiz (each is worth 3 homework points)
- Work on suggested <u>Chapter 5 EOC</u>
 <u>problems</u> on WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual).

Part 3 - optical activity, mixtures of enantiomers, alkene nomenclature

23 minutes, skeleton notes pages 5-6 to 5-8

Chapter 5

- ✓ Watch
- ✓ Read
- **✓** Practice

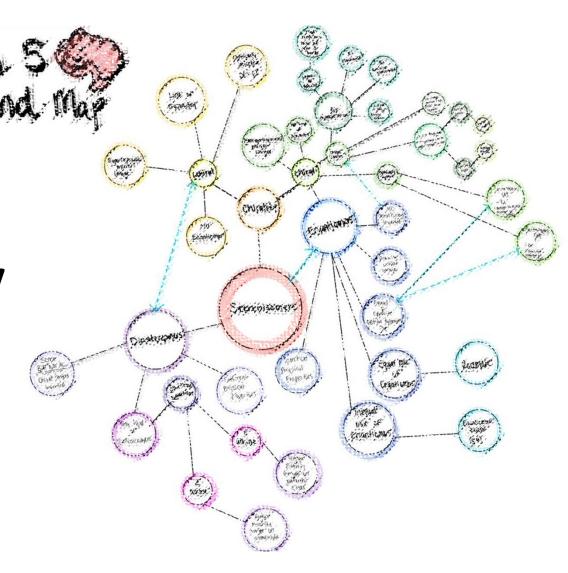
Educator Lecture

Physical Properties of Stereoisomers		77:11
Enantiomers		77:12
Diastereomers		78:01
Example		78:26
Physical Properties of Stereoisomers	Physical	83:05
When Do Enantiomers Behave Differently?	Properties &	83:06
Racemic Mixtures	Enantiomeric	88:18
Racemic Mixtures		88:21
Resolution	Excess (ee)	89:52
Unequal Mixtures of Enantiomers		92:54
Enantiomeric Excess (ee)		92:55
Unequal Mixture of Enantiomers		94:43
Unequal Mixture of Enantiomers		94:44
Example: Finding ee		96:38
Example: Percent of Composition		99:46

Current Friday5...

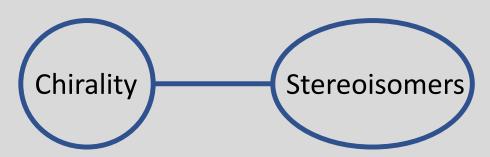
Make a

Stereochemistry
Concept Map!



Concept Map to...
visualize content
organize topics
identify relationships

Begin with:



Prizes will be awarded for best Concept Maps!

Exam Wrapper Survey & Exam Corrections (4 pts each)

due Thurs. 3/6

Last Call for Regrade Requests!

Chill 3 140 Exam wrapper - Fost-Test Survey			rest survey Nam	e:		—	
	Metacognition By taking a s The following survey will gu performance on the next exa corrections (*include writte 1. How did you prepare	iide you am. You n reflec	ı through an exercise in sel u will earn 4 points credit i tion, if score <50). It analy	f-reflect f you co	tion, with the goal of impro mplete this survey, and 4 p	ving yo	our
	What kinds of mistak How will you prepare What was your score* on the	es did y e differe	you make? * If o ently next time? writ	ake? * If exam score is below 50, you must submit a			
	What was your grade in CHN	4 1220°	? Are ye	ou repe	ating CHM 3140? Y / N		
	 Leading up to the exam, as outside of class (on average) 				ary?		
	2. Given the number of textb	ook pr	oblems in each chapter (#)	, about	how many did you work or	1?	
	Ch. 1 (# problems)		Ch. 2 (# problems)		Ch. 3 (# problems)		
	(Lewis, hybridization, bp)		(Resonance)		(Acid/Base)		
	10 SkillBuilders (34)		10 SkillBuilders (33)		11 SkillBuilders (33)		
	End-of-Chapter (EOC) (47)		EOC (51)		EOC (40)		

What's Coming Up Next? NMR!

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
5	you — are	2/18 Ch. 4 # 1	2/19	2/20 Ch. 4 # 2	2/21
6	here	2/25 Ch. 5 # 1	2/26	2/27 €h. 5 # 2	2/28
7	3/3	3/4 Ch. 5 # <i>3</i>	3/5	3/6 Ch.15 # 1	3/7
8	3/10	3/11 Exam Review	3/12	3/13 Exam II	3/14

Daily To-Do

Flipped Lectures

Part 1 (will be on Exam II)

- Optional Reading: skim through Klein Chapter 15, sections 1-9, 11, and 12
- Watch ALL FOUR flipped lectures
- Work through SkillBuilders 15.1 15.7 and 15.9.
- See suggested <u>Chapter 15 EOC problems</u> on WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual). The following Chapter 15 problems are good practice for Exam II:
 1-22, 26, 35-39, 41, 42, 45, 47, 48, 50, 63-71.
- Part 1a Introduction to NMR Spectroscopy

 30 minutes, skeleton notes pages 15-1 to 15-2
- Part 1b Number of Signals & Peak Integration 22 minutes, skeleton notes page 15-3
- Part 1c Chemical Shifts (ppm)
 25 minutes, skeleton notes pages 15-4 to 15-5
- Part 1d Splitting Patterns & Predicting an NMR Spectrum
 - **41 minutes**, skeleton notes pages 15-6 to 15-7