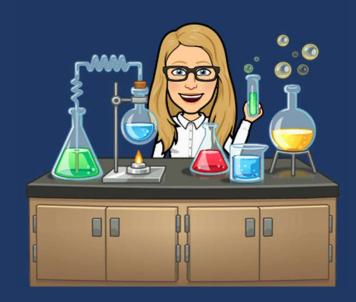
For voting, go to: https://pollev.com/lauriestarke263 or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey
Cal Poly Pomona



CHM 3140 Organic Chemistry I Announcements 3/27/25

Today's Topic: S_N1 Mechanism (Chapter 7, Part 1 - Step 2)

Chapter 7

- ✓ Watch
- ✓ Read
- ✓ Practice

Daily To-Do

Flipped Lectures

Step 2

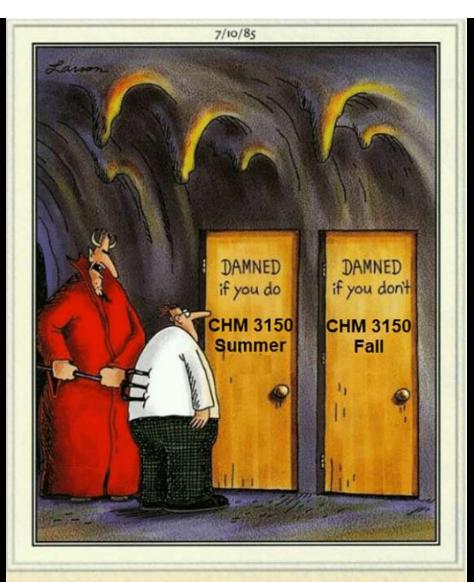
- Read Klein sections 7.1, 7.4, 7.8, 7.10
- Watch tlipped lectures
- Work through SkillBuilders 6.2, 7.6, 7.8
- Sn1 vs. Sn2 Mechanisms homework (in Gradescope can be submitted late with no penalty, up until date of Exam 3)
- Work on suggested <u>Chapter 7-Part1 EOC problems</u> on WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual).

- Part 2a (Sn1 and Sn2 vs Sn1)
 - **42 minutes**, skeleton notes pages 7-5 to 7-7
- Part 2b (Leaving Groups, Nucleophiles)
 - 24 minutes, skeleton notes pages 7-7 to 7-10

Note: we will work on page 7-11 Solvent Effects together in class, at the end of Chapter 7

SN1 Substitution Mechanism		41:52
Is This Substitution? Could This Be an SN2 Mechan	ism?	41:54
SN1 Mechanism		43:50
Two Key Steps: 1. Loss of LG		43:53
Two Key Steps: 2. Addition of nu		45:11
SN1 Kinetics		47:17
Kinetics of SN1		47:18
Rate of SN1 (By RX type)		48:44
SN1 E vs. POR Diagram		49:49
E vs. POR Diagram		49:51
First Transition Stage (TS-1)		51:48
Second Transition Stage (TS-2)		52:56
Stereochemistry of SN1		
Racemization of SN1 and Achiral Carbocation Intermediate		
Example		54:29
SN1 Summary		58:25
Summary of SN1		58:26
SN1 or SN2 Mechanisms?		60:40
Example 1: SN1 or SN2 Mechanisms		60:42
Example 2: SN1 or SN2 Mechanisms	Sn1 Mechanism	63:00
Example 3: SN1 or SN2 Mechanisms		64:06
Example 4: SN1 or SN2 Mechanisms	Leaving Groups	66:17
SN1 Mechanism		69:12
Three Steps of SN1 Mechanism	& Nucleophiles	69:13
SN1 Carbocation Rearrangements		74:50
Carbocation Rearrangements Example		74:51
SN1 Carbocation Rearrangements		80:46
Alkyl Groups Can Also Shift		80:48
Leaving Groups		84:26
Leaving Groups		84:27
Forward or Reverse Reaction Favored?		86:00
Leaving Groups		89:59
Making poor LG Better; Method 1		90:00
Leaving Groups		94:18
Making poor LG Better: Tosylate (Method 2)		94:19
Synthesis Problem		98:15
Example: Provide the Necessary Reagents		98:16
Nucleophilicity		101:10
What Makes a Good Nucleophile?		101:11
Nucleophilicity		104:45
Periodic Trends: Across Row		104:47
Periodic Trends: Down a Family		106:46

Flipped Lecture



"C'mon, c'mon-it's either one or the other."

Registering for CHM 3150

Summer 2025

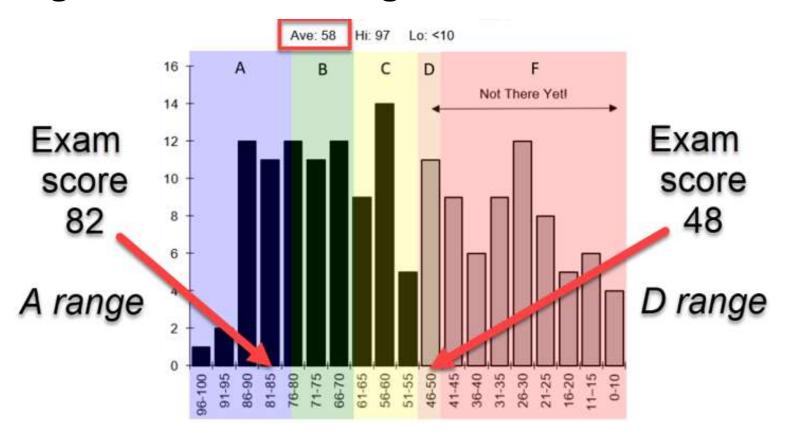
- © no gap/memory loss
- © start Biochem in Fall
- Radapt to new professor

Fall 2025 (TuTh 1/4/5:30 pm)

- © used to Dr. Starkey's style
- Spend summer reviewing Chapters 7–11! *Reminder*

Gary Larson, The Far Side

Estimated CHM 3140 grade is based exam scores. See histograms...Exam average below 50% will not earn C-



Possible repeat CHM 3140? Consider registering for 3150 and 3140...

Do you know what the Spring Break weekend is?!

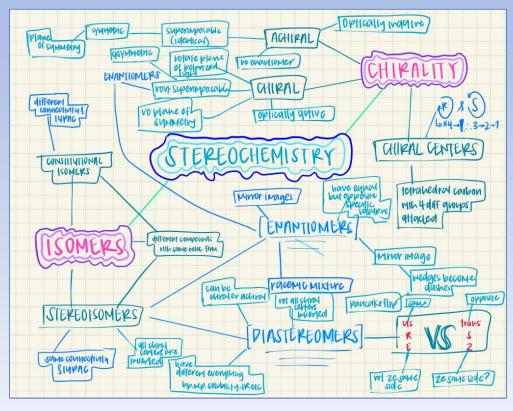
Week	Mon	Tues	Wed	Thurs	Fri	
9	3/17	3/18 Ch.15 #2	3/19	3/20 Ch. 6 #1	3/21	
10	3/24	3/25 Cn. 7 #1	3/26	3/27 Ch. 7 #2	3/28	
S P R I N G B R E A K 3/31 - 4/4						
11	4/7	4/8 Ch. 7 #3	4/9	4/10 Ch. 7 # 4	4/11	
12	4/14	4/15 Exam Review	4/16	4/17 Exam III	4/18	

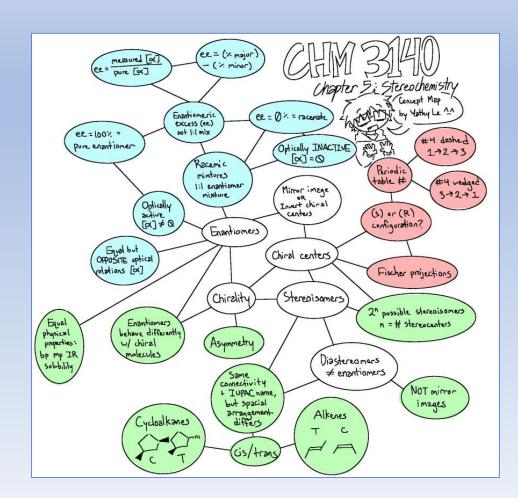
Exam III – Thursday, 4/17 (10% NMR, 20% Chapter 6, **70% Chapter 7**)



Make some time for self-care during Spring Break!

Concept Map \$10 Winners!



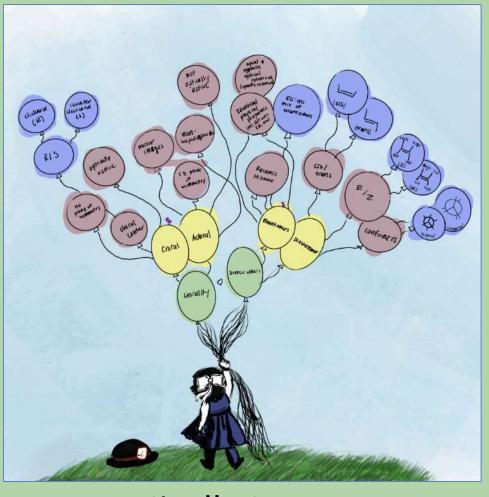


Danielle Galicia

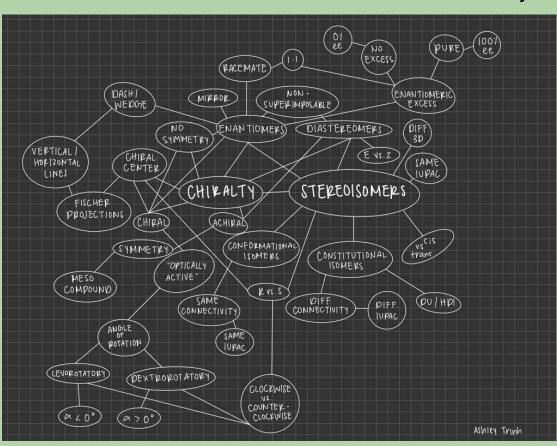
Yathy Le

1st Place (tie) \$20 Amazon Gift Cards

Great job,
Jiselle and Ashley!



Jiselle Le



Ashley Trinh