For clicker question voting, go to: https://pollev.com/lauriestarke263

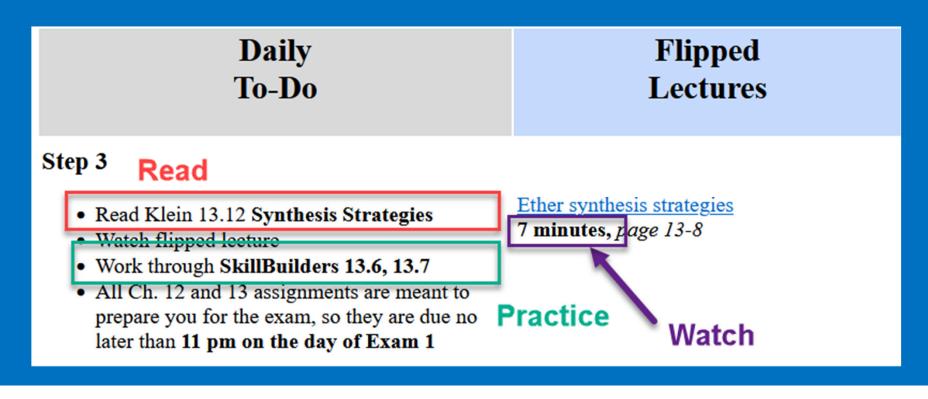




Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3150 Organic Chemistry II 9/16/25

Today's Topic: Ch. 13, Step 3 Synthesis Strategies & Exam Review



Exam I Thursday, 9/18 (Chapters 11, 12, 13)

60-minute written exam

• no multiple-choice, no Scantron, no lecture after

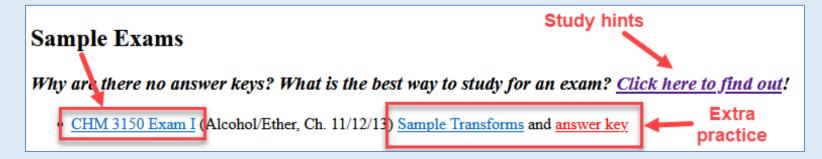
No notes, calculators, model kits allowed

• Bring pencil(s), eraser

See sample exams on course homepage

• See typical length, format

Extra office hour/
review session (Zoom)
Tonight! 9-10 pm



Don't let this happen to you!

Test-taking strategies...



- Carefully read directions & follow instructions
- Ask me if something is unclear (maybe a typo?!)
- Exam does not need to be taken in order start with your most confident question type!
 predict product IUPAC mechanism explain synthesis transform



Why use old-fashioned flash cards?

Quizlet-type website

- Items not aligned with instructor notes/textbook
- Computer & Internet needed
- Limited ability to customize
- Limited ability to mix topics
- YOU are not in control







Flash Cards

- Created from YOUR notes/textbook
- No limit to topics (nomenclature...)
- Variety of skills (missing product or missing reagents or missing substrate)
- No tech needed, so offers ultimate mobility: car, beach, picnic, etc.
- Can remove cards as proficiency improves
 focus where needed
- Cards can be shuffled = final exam prep.
- Stack can grow in with each chapter
- Good review for MCAT, DAT, PCAT...



3 Assignments due ASAP + Ch. 11/12/13 EOC on 9/18

3 Assignments ade AsAi . em			
CHM 3150 Organic Chemistry II, Cal Poly Pomona, Dr. Laurie S. Starkey	Gradescope		
Name: Section (day/time):	Free Red Ink Assignments 128 Name Points Released Submissions students		
 On blank pieces of paper, draw out the following twenty textbook problems (Klein, 4th edition) and solve them. Do not just write down the answers. 7.76acef, 8.42ac, 8.43a-f, 9.41bcd, 9.52bc, 10.23abc Check your answers in the Student Solutions Manual (SSM), and make corrections to your work. You are 	Epoxide Homework 5.0 SEP 10, 2025 21 16%		
encouraged to work with a study group, but your review of the material is worthwhile only if you attempt the problems before checking the SSM! ==================================	Grignard Homework 5.0 SEP 2, 2025 8 79 62%		
CHM 3150 Organic Chemistry I, Dr. Laurie S. Starkey Predict the Products Problem Set: Grignard/Hydride	20-Questions Review Homework#1 5.0 AUG 20, 2025 94 73%		
Name: Predict the major product(s) expected for each of the formula State Polytechia	nic University, Pomona		

Name:
Predict the major product(s) expected for each of the findicate stereochemistry, when appropriate. You may in excess, unless otherwise noted. If no reaction is ex
A) (1) (Li) (2) H ₃ O ⁺
B) O H O H O H O H O
C) PhMgBr
D) ○ OH CH ₃ MgI

California State I	Dalasta alauja II ajananajtar Danana			
California State Polytechnic University, Pomona Organic Chemistry II CHM 3150, Dr. Laurie S. Starkey Epoxide Ring Opening Homework		Chapter 11 EOC/SkillBuilder		5.0
Name:	Section Day/Time:			
Predict the major product for each of the for Pay close attention to details, including long	llowing reactions and provide a <u>complete</u> mechanis e pairs, formal charges and the use of curved arrows	Chapter 12	EOC/SkillBuilder	10.0
		Chapter 13	EOC/SkillBuilder	10.0
	•			
EtONa EtOH	CH ₂ CH ₃ EtOH H ₂ SO ₄			
A		В		
mechanism for reaction A:				

For the Weekend: Chapter 19, Steps 1 & 2

Daily Flipped To-Do Lectures Step 1 Read Part 1a - IUPAC of Aldehydes and Ketones · Read Klein 14 minutes Sections 19.1, 19.2 Nomenclature of Aldehydes skeleton note. page 19-1 & Ketones Section 19.3 Preparation of Aldehydes & Part 1b - Preparation, Reaction with Hydride/Grignard Sections Klein 19.4-19.6 Reaction with 38 minutes Hydride & Grignard Nucleophiles skeleton notes pages 19 1 to 19-3 Watch flipped lectures Work through SkillBuilder 19.1 and Conceptual Checkpoints 19.5a-e, 19.6a-d, 19.7ab, 19.8ab Watch • Practice Aldehyde/Ketone Nomenclature: practice **Practice** worksheet and answer kev Step 2 Read · Part 2a - Wittig • Read Klein 19.6 Reaction with Carbon Nucleophiles 13 minutes Work through SkillBuilder 19.2 and Conceptual Checkpoint 19.15ab

- Read Klein 19.7 Reactions with Oxygen Nucleophiles (hold off on Protecting Groups until later)
- Work through SkillBuilder 19.3 and Conceptual Checkpoints 19.20ab, 19.21, 19.22.
- Note: for more sugar examples, see SkillBuilder 24.1 and Chapter 24 problems 24.9, 24.10, 24.11.
- Read Klein 19.9 Hydrolysis of Acetals

- skeleton notes pages 19-4 to 19-5
- Part 2b Acetal F rmation 29 minutes skeleton notes ages 12-5 to 19-7
- Part 2c Acetal Hydrolys 10 minutes skeleton notes page

Practice

Watch