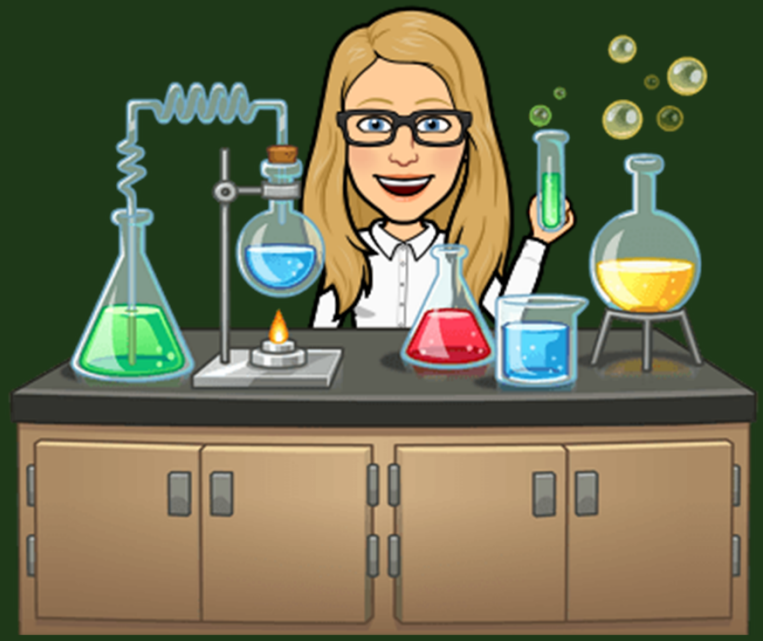
For clicker question voting, go to:
https://pollev.com/lauriestarke263



Dr. Laurie S. Starkey

Cal Poly Pomona

CHM 3150 Organic Chemistry II
10/2/25

Today's Topic: Acetals as Protective Groups…

Ch. 19 Part 4

- ✓ **Watch**
- ✓ **Read**
- ✓ **Practice**

Step 4

- Read Klein
  - Sections 12.7 & 19.5 **Protective Groups**
  - Section 19.12 **Synthesis Strategies**
- Work on problems: 12.18, 19.10, 19.11 (protective groups)
- Work through **SkillBuilder 19.7** and problems 19.40a-e,g (synthesis)

Part 4 - Acetals as Protective Groups

20 minutes

skeleton notes page 19-12 to 19-14

Flipped Lecture: Protective Groups

Acetals as Protective Groups

Ch. 19 Reactions of Aldehydes & Ketones

Check out the End-of-Chapter Material

19.12 Synthesis Strategies

19.13 Spectroscopic Analysis

Review of Reactions

REVIEW OF CONCEPTS AND VOCABULARY

SKILLBUILDER REVIEW

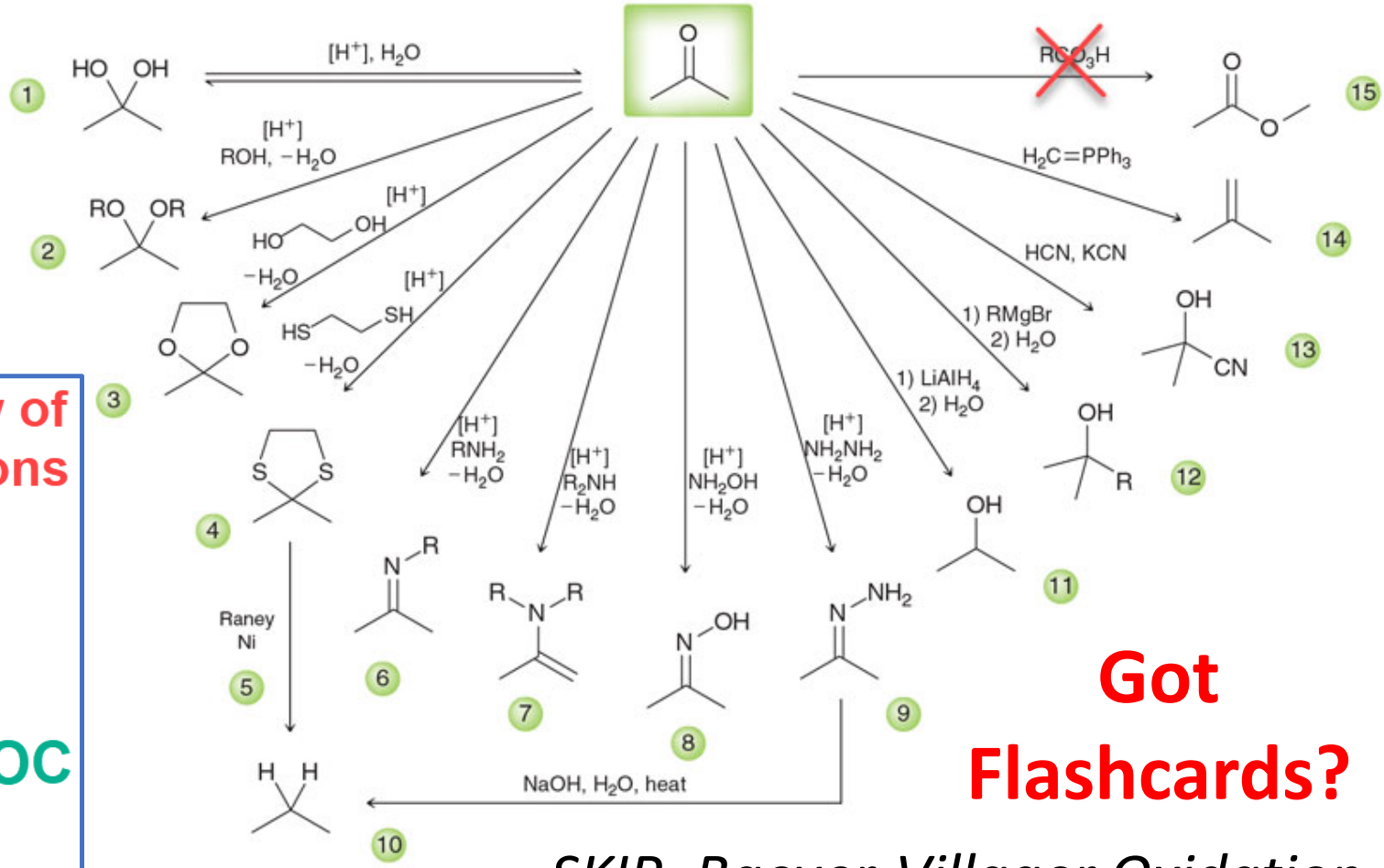
PRACTICE PROBLEMS

ACS-STYLE PROBLEMS (Multiple Choice)

INTEGRATED PROBLEMS

CHALLENGE PROBLEMS

EOC



Got Flashcards?

SKIP: Baeyer-Villager Oxidation

… & Today's Other Topic: Intro to Carboxylic Acids and Their Derivatives (Ch. 20)

Ch. 20 Part 1

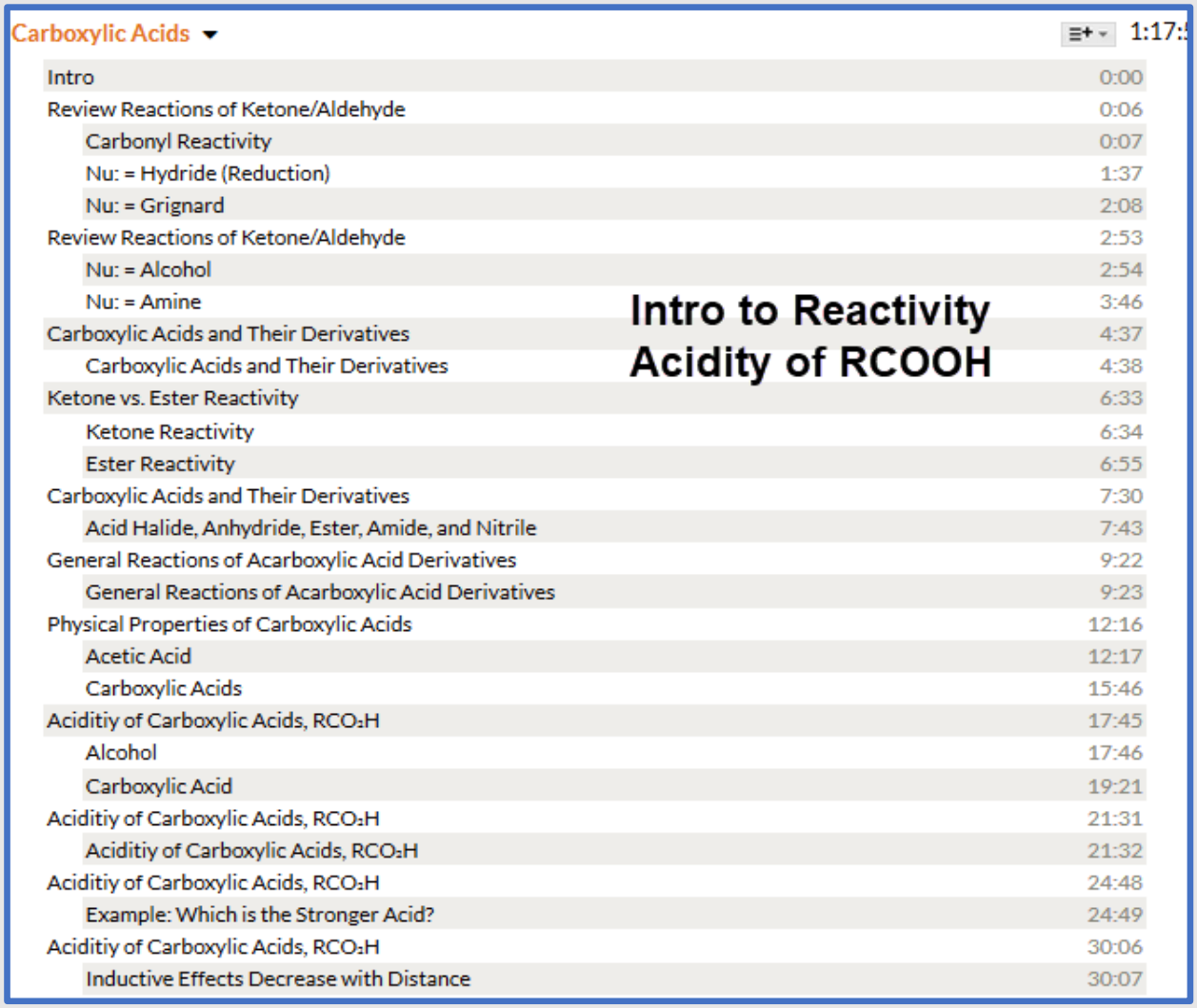
- ✓ **Watch**
- ✓ **Read**
- ✓ **Practice**

Step 1

- Nomenclature is a BIG topic, so you can chip away at it and we will work on problems at the end (see Step 4)
  - Practice Carboxylic Acid & CA Derivatives Nomenclature: practice worksheet and answer key
- Read Klein 20.3 **Physical Properties**
- Work through **Conceptual Checkpoints** 20.4-7, 20.9ab

- Part 1 - Physical Properties
  32 minutes
  skeleton notes pp 20-1 through 20-3

Flipped lecture: Intro to Carboxylic Acids & Carb. Acid Derivatives



Start…Stop…Continue

Flipped classroom ✓

Lecture videos/skeleton notes ✓

SkillBuilders ✓

Recording class/Zoom option ✓

Free red ink feedback ✓

Problems are too fast in class…

…do more problems

Answer key to sample exams ✗

Require fewer textbook problems ✗

Too many websites…

…thanks for all the resources (can you provide Ch. Summary?)

OLC is great…

…group work isn't for me

Do you know what this weekend is?!

CHM 3150 Organic Chemistry II, Dr. Laurie S. Starkey, Fall 2025

Tentative Schedule (Chapter and Worksheet #)

Week	Mon	Tues	Wed	Thurs	Fri
5	9/22	9/23 Ch. 19 ***#1***	9/24	9/25 Ch. 19 ***#2***	9/26
6	9/29	9/30 Ch. 19 ***#3***	10/1	10/2 Ch. 19/20 ***#1***	10/3
7	10/6	10/7 Ch. 20 ***#2***	10/8	10/9 Ch. 20 ***#3***	10/10
8	10/13	10/14 Ch.20 ***#4***, Review	10/5	10/16 **Exam II**	10/17

Ch. 20 Nomenclature is a BIG topic, so work through gradually on your own! (see Step 4)

Infographic by James Kennedy, Chemistry teacher in Australia

Common Names of Carboxylic Acids

formic acid
'ant' in Latin
methanoic acid

acetic acid
'vinegar' in Latin
ethanoic acid

propionic acid
'first fat' in Greek
propanoic acid

butyric acid
'butter' in Greek
butanoic acid

valeric acid
'valerian' in English
pentanoic acid

caproic acid
'goat' in Latin
hexanoic acid

enanthic acid
'blossom' in Greek
heptanoic acid

caprylic acid
'goat' in Latin
octanoic acid

pelargonic acid
'geranium' in Greek
nonanoic acid

capric acid
'goat' in Latin
decanoic acid

11

undecylic acid
'11' from Greek
undecanoic acid

lauric acid
'laurel' in Latin
dodecanoic acid

13

tridecylic acid
'13' from Greek
tridecanoic acid

myristic acid
'nutmeg' in Latin
tetradecanonic acid

15

pentadecylic acid
'15' from Greek
pentadecanoic acid

palmitic acid
'palm trees' in English
hexadecanoic acid

margaric acid
'pearl oyster' in Greek
heptadecanoic acid

stearic acid
'tallow' in Greek
octadecanoic acid

19

nonadecylic acid
'19' from Greek
nonadecanoic acid

arachidic acid
'peanuts' in Latin
eicosanoic acid

21

heneicosanoic acid
'21' from Greek
heneicosanoic acid

behenic acid
'11th month' in Persian
docosanoic acid

23

tricosylic acid
'23' from Greek
tricosanoic acid

lignoceric acid
'wood wax' in Latin
tetracosanoic acid

25

pentacosylic acid
'25' from Greek
pentacosanoic acid

cerotic acid
'wax' in Greek & Latin
hexacosanoic acid

27

heptacosylic acid
'27' from Greek
heptacosanoic acid

montanic acid
'mountain' in Latin
octacosanoic acid

29

nonacosylic acid
'29' from Greek
nonacosanoic acid

melissic acid
'bee' in Greek
triacontanoic acid

31

henatriacontylic acid
'31' from Greek
henatriacontanoic acid

?

lacceroic acid
(origin unknown)
dotriacontanoic acid

psyllic acid
'fleawort' in Greek
tritriacontanoic acid

?

gheddic acid
(origin unknown)
tetratriacontanoic acid

ceroplastic acid
'modelling wax' in Greek
pentatriacontanoic acid

36

hexatriacontylic acid
'36' from Greek
hexatriacontanoic acid

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