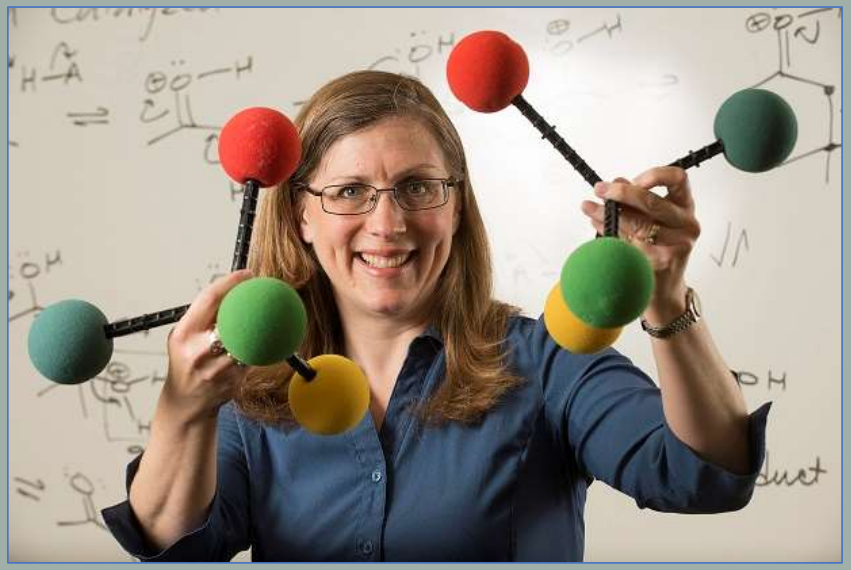
For voting, go to: https://pollev.com/lauriestarke263
or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey

Cal Poly Pomona

CHM 3140 Organic Chemistry I Announcements 2/27/25

Today's Topic: Stereochemistry (Chapter 5, Step 2)

Chapter 5

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

Daily To-Do	Flipped Lectures
Step 2 • Read Klein Chapter 5, sections 4-7 • Watch flipped lecture (Part 2) • Work through **SkillBuilders 5.6, 5.7, 5.8**	Part 2 - Fischer projections, molecules with multiple chiral centers **36 minutes**, *skeleton notes pages 5-4 to 5-6*

Educator Lecture

Fischer Projections	41:47
Definition of Fischer Projections	41:49
Drawing Fischer Projection	43:43
Use of Fisher Projection: Assigning Configuration	49:13
Molecules with Two Chiral Carbons	51:49
Example A	51:42
Drawing Enantiomer of Example A	53:26
Fischer Projection of A	54:25
Drawing Stereoisomers, cont.	59:40
Drawing Stereoisomers Examples	59:41
Diastereomers	61:48
Drawing Stereoisomers	66:37
Draw All Stereoisomers of 2,3-dichlorobutane	66:38
Molecules with Two Chiral Centers	70:22
Draw All Stereoisomers of 2,3-dichlorobutane, cont.	70:23
Optical Activity	74:10
Chiral Molecules	74:11
Angle of Rotation	74:51
Achiral Species	76:46

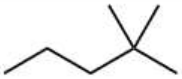
Fischer Projections, Multiple Chiral Centers & Optical Activity

Nomenclature Practice Worksheets are on CHM 3140 Course Homepage! (keys posted)

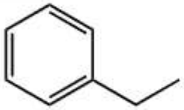
Organic Chemistry CHM 314, Dr. Laurie S. Starkey, Cal Poly Pomona

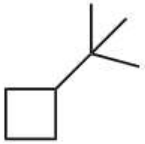
Alkane Nomenclature Practice

Each of the following IUPAC names has TWO errors in it. Identify the mistakes and provide correct name.

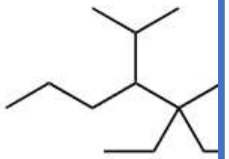


4-dimethylpentane

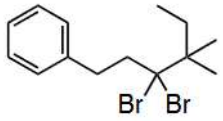


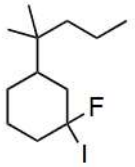


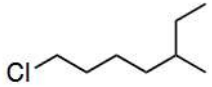
(trimethyl)butane

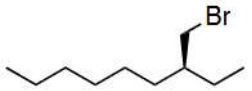


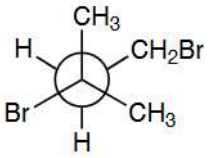
CHM 314, Dr. Laurie S. Starkey, Alkane Nomenclature Practice Problems

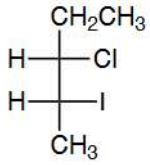












Do you know what this weekend is?!

CHM 3140 Organic Chemistry I, Dr. Laurie S. Starkey, Spring 2025

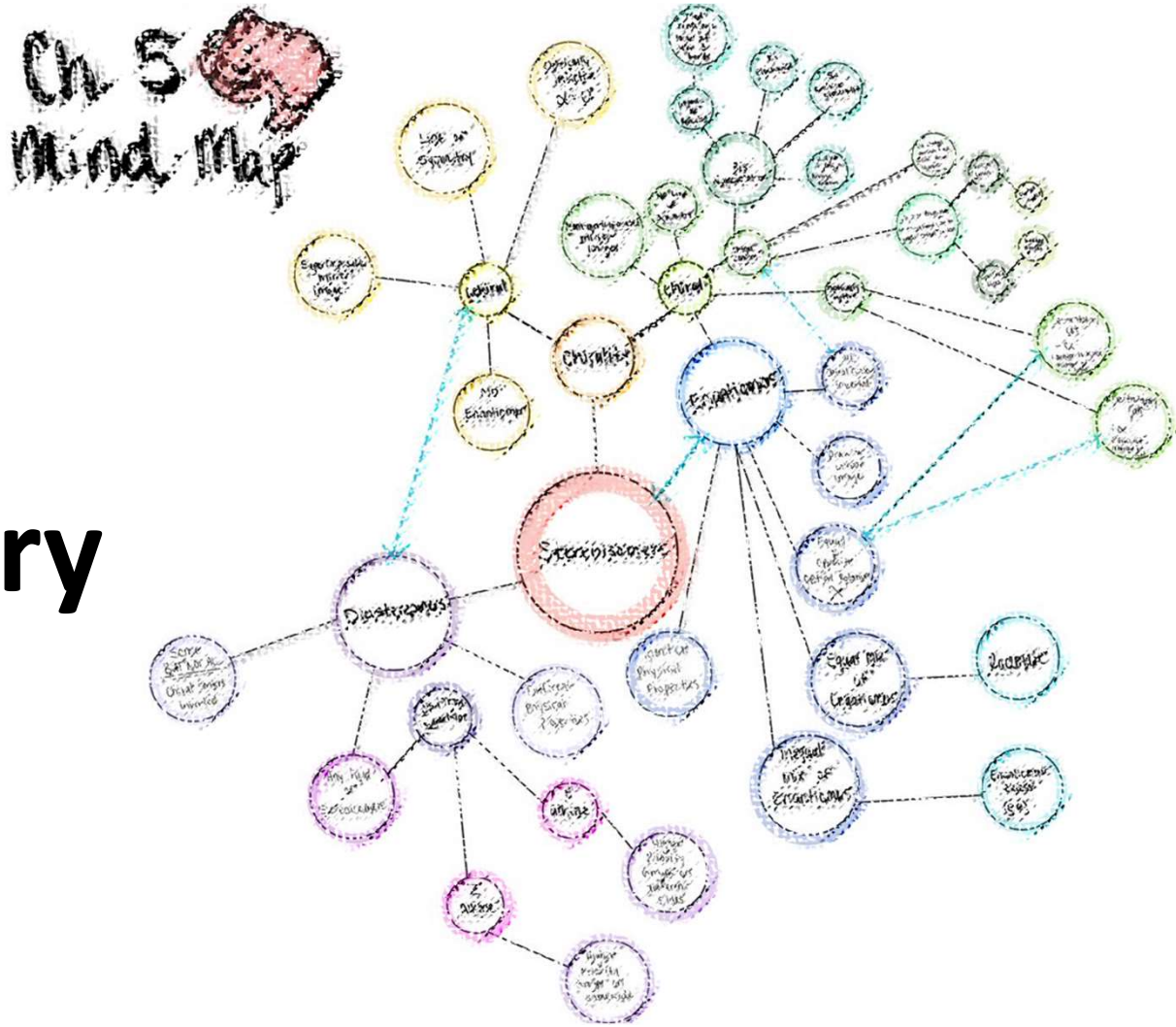
Tentative Schedule (Chapter and *Worksheet/Step #* given for each day)

Week	Mon	Tues	Wed	Thurs	Fri
5	2/17	2/18 Ch. 4 ***#1***	2/19	2/20 Ch. 4 ***#2***	2/21
6	2/24	2/25 Ch. 5 ***#1***	2/26	2/27 Ch. 5 ***#2***	2/28
7	3/3	3/4 Ch. 5 ***#3***		3/6 Ch.15 ***#1***	3/7
8	3/10	3/11 Exam Review		3/13 **Exam II**	3/14

you are here

Next Friday5…

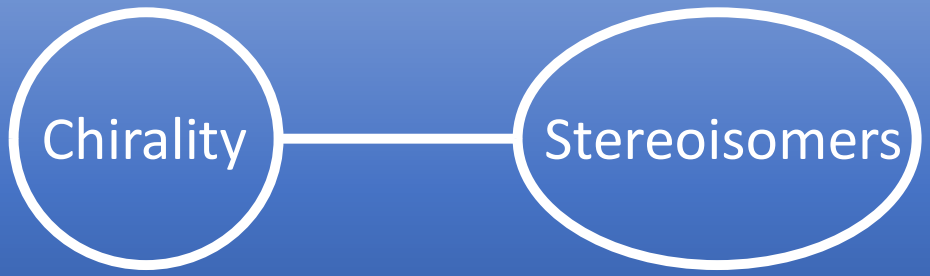
Create an
ORIGINAL
Stereochemistry Concept Map!



Concept Map to…

* visualize content
* organize topics
* identify relationships

Begin with:



Prizes will be awarded for best Concept Maps!