

Journal Prompts for the next two weeks (Oct 5 through Oct 13). The slide numbers correspond to the file Session05_ALL-CONTENT

These are merely suggestions to take your learning to another level. They are intended to nudge you but they are purposefully not overly descriptive. Take these prompts where you want to based on your personal experience, interests, and creative pursuits.

1) SLIDE #9 - <https://www.popsoci.com/new-york-trans-fat-ban/>

Compare the fatty acid molecules show in the above article. Which pair(s) of molecules are isomers? For each isomeric pair, describe the type of isomer.

2) SLIDE #15 - <https://en.wikipedia.org/wiki/Twistane>

Is the molecule twistane chiral?

Draw a picture to schematically illustrate the symmetry that is present in this molecule:

<https://symotter.org/gallery>

3) SLIDE #16

Watch the video and make an illustration that captures the idea of the "molecular handshake"

4) SLIDE #19

Read the passage and explain the idea of chiral recognition between a protein receptor and an odorant

5) SLIDE #20 - <https://en.wikipedia.org/wiki/Ibuprofen#Stereochemistry>

According to wikipedia: How many stereocenters in ibuprofen? Which stereochemical configuration (R or S) is biologically active? Describe the stereochemistry of the compound that is put into the pill bottle? Is it a mixture of both isomers? Is it a single isomer?

6) SLIDE #24 - how many stereocenters are in glucose? How many in fructose?