

WEEK OF: March 29, 2021

Class: Biochemistry – A/B/C/D Blocks

Teacher: Mrs. Burke

Contact Info: Deborah.Burke@thedeltahighschool.com, Teams, and Remind

Office Hours: 1:00-1:30 MTRF, 1:00-2:00 W

Zoom Links: See Teams “Meeting Links” channel for class and office hour access

Objectives:

- Develop understanding of chemistry symbols and visual rhetoric
- Utilize molecular models to explore and communicate
- Recognize proton transfer behavior of acids and bases

Synchronous Agenda	
Lesson 1	Shortcuts in drawing hydrocarbons, symbols for net charge, abbreviations for common organic chemical parts (both drawn and typed)
Lesson 2	Acid and base as proton donor/acceptor, identifying acid and base portions of amino acid backbone, attraction of opposite charges

Asynchronous Responsibilities	
Resource Interactions	<p>Select one item from EACH category</p> <p><u>Chemical Structure Shortcuts</u> Reading: “Drawing Chemical Structures” https://chem.libretexts.org/Bookshelves/Organic_Chemistry/Map%3A_Organic_Chemistry_(McMurry)/01%3A_Structure_and_Bonding/1.12%3A_Drawing_Chemical_Structures Video: “Organic Chemistry 101: Drawing the structures” https://chemsimplified.com/organic-chemistry-101-drawing-the-structures/</p> <p><u>Acids and Bases</u> Reading: “Bronsted-Lowry Acids and Bases” https://opentextbc.ca/introductorychemistry/chapter/bronsted-lowry-acids-and-bases-2/ Video: “What Is The Bronsted Lowry Theory Acids, Bases & Alkali’s Chemistry” https://www.youtube.com/watch?v=ZiokqP0aZ1E</p>
Activities	1. What type(s) of resource interactions do you prefer? (e.g. reading, video, audio, hands-on...) – Teams “Response Prompts” channel assignment 2. Virtual Build-a-Molecule #1 Lab – see Teams Assignments for details
Worksheets	Molecule drawing 1.docx
Journal Entries	<ul style="list-style-type: none">○ Prep for entry task: Review calculating molecular weights. <i>Be ready to calculate a molecular weight when given a chemical formula upon arrival for Lesson 2</i>○ Lab response○ Worksheet practice○ Vocab: Bronsted-Lowry acid, Bronsted-Lowry base, condensed formula, and amphoteric or amphiprotic○ <u>Resource Interaction Responses:</u> Interaction key concept summary sentences and/or annotated drawing

	Examples Questions and/or ponderings you have
Quiz	Amino acid general structure

Asynchronous Time

Complete resource interactions, activities, journal entries

Work with others to support and enhance learning

Attend office hours: seek assistance, share resources and information, work with others

DUE DATES:

A Cohort/Distance Classes - Due by Monday April 12th at 8:00 AM:

B Cohort - Due by Thursday April 15th at 8:00 AM:

- Engage with required resources
- Respond to the prompt assignment
- Complete the worksheet practice
- Complete the lab activity
- Complete ALL journal entries
- Take the QUIZ!!!