

Grade 9

Distance Learning Module 9: Week of: June 1st – June 5th

Conceptual Chemistry - Modified from [Unit #3 - Polymers](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

1. Hydrocarbons are organic molecules composed of only carbon and hydrogen. Alkanes are saturated hydrocarbons that contain only single bonds. Alkenes contain one or more carbon-carbon double bonds. Alkynes contain one or more carbon-carbon triple bonds

Vocabulary: monomers, polymers, alkanes, alkynes, alkenes, double bond, triple bond, organic molecule, hydrocarbon, constituent groups

Skills:

1. Gather and analyze data to draw conclusions and communicate results.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will be introduced to the basic idea of what monomers and polymers are through two edpuzzle videos. Students will understand their importance in biological chemistry, and begin to focus on hydrocarbon and the bonding activity of carbon atoms. Students will then need to recall these definitions on a separate worksheet.	Introductory Video to Monomers and Polymers: Edpuzzle: A Level Biology: Monomers and Polymers Introduction to Hydrocarbons: Edpuzzle: Hydrocarbons Worksheet Answer Key: Posted in Google classroom	Worksheet: Posted in Google classroom
Tuesday: Students will explore how basic alkanes are named, with limits to straight alkanes with no	Basic Hydrocarbon Video: Edpuzzle: Naming simple alkanes Organic chemistry Khan Academy	Worksheet: Posted in Google classroom

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
branches, to alkanes with up to two branches. Students will use the skills learned in the edpuzzle video to practice naming some alkanes on a separate worksheet. Online Q&A/ Office Hours: 9:25 a.m.-10 a.m	Naming Alkanes with Sidechains: Edpuzzle: Naming simple alkanes Organic chemistry Khan Academy Worksheet Answer Key: Posted in Google classroom	
Wednesday: Students will expand on yesterday's work to learn how to name both basic alkenes and basic alkynes. After completing two edpuzzle videos, students will complete a worksheet that covers how both are named.	Naming Alkenes: Edpuzzle: Naming alkenes examples Alkenes and Alkynes Organic chemistry Khan Academy Naming Alkynes: Edpuzzle: IUPAC Nomenclature of Alkenes and Alkynes Worksheet Answer Key: Posted in Google classroom	Worksheet: Posted in Google classroom
Thursday: Students will work on a practice worksheet that goes over both naming and drawing alkanes, alkenes, and alkynes. This is limited to straight hydrocarbons with zero constituents, two more challenging hydrocarbons with up to two branched groups. Students should understand these will be good practice for the content check on Friday. Online Q&A/ Office Hours: 9:25 a.m.-10 a.m	Worksheet Answer Key: Posted in Google classroom t	Worksheet: Posted in Google classroom
Friday: Review from the week Check answer keys for worksheets, retry if needed Office hours 9:25 a.m. to 10:00 a.m. Google Form quiz of the week's topics		

Week criteria for success (attach student checklists or rubrics):

- ☐ watched all of the recorded videos and taken notes
- ☐ completed all google forms and checked for accuracy. Each incorrect answer on the google form will provide feedback as to why the correct answer is preferred. Students will incorporate this feedback into future attempts.
- ☐ Students will complete an end of the week assessment that checks on content understanding for the topics of the week.
- ☐ incorporated feedback, submitted second attempt, if needed on google classroom

Supportive resources and tutorials for the week (plans for re-teaching):

- online virtual Q and A help sessions (see Google Classroom for times and invite codes)