

Grade 10/11/12

Distance Learning Module 8: Week of: May 26 - May 29

Bond Enthalpy, Molecular Geometry & Molecular Polarity

Honors Chemistry - Modified from [Unit #7 - Chemical Bonding, Molecular Geometry, & Intermolecular Forces of Attraction](#)

Targeted Goals from Stage 1:

Content Knowledge: Electronegativity differences between the two atoms account for the distribution of shared electrons and the polarity of the bond. The localized electron bonding model describes and predicts the molecular geometry using Lewis diagrams and the VSEPR model. There are four types of crystal lattice structures: ionic, molecular, covalent (network solids), and metallic.

Vocabulary:

Skills: Interpret Lewis Dot structures to predict molecular shape and polarity (including bond angles, bond polarity, and hybridization).

Expectation

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone at end of the week)
Monday:	Memorial DayL	NO SCHOOL
Tuesday: <i>Students can set their own pacing, but make sure to meet the weekly expectations shown below:</i> <ul style="list-style-type: none">• Watch Edpuzzle Video on Bond Enthalpy• Save notes to submit when you have completed the module• Complete Bond Energy POGIL• Complete Wkst 9-5_ Bond Energy	Edpuzzle: Mod8_Video 1_5.3 Bond Enthalpy Bond Energy POGIL.pdf Reference_Bond Enthalpy Table WKST 9-5 Bond Energy Calculations	<input type="checkbox"/> view & answer embedded multiple choice while watching edpuzzle videos - grade will automatically transfer to Classroom gradebook from Edpuzzle when video is watched all the way to the end & show results button is checked <input type="checkbox"/> picture of or electronically submitted

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone at end of the week)
Calculations		completed Bond Energy POGIL <input type="checkbox"/> submitted picture of or electronically completed Wkst 9-5_ Bond Energy Calculations
Wednesday: <ul style="list-style-type: none"> • Watch Edpuzzle Video on • Read through Unit 7 PowerPoint Slide Show & take notes • Save notes to submit when you have completed the module • Complete Molecular Shapes Interactive PHET Activity • complete Practice SB_Sumamry MoGeometry as a review of all new information 	DL Objectives_Chapter 10_(10.1-10.5) Unit 7 Chemical_Bonding_II_(Sections 10.1-10.5) Molecule Shapes Practice_SB_Summary_MoGeometry.pdf	<input type="checkbox"/> view & answer embedded multiple choice while watching edpuzzle videos - grade will automatically transfer to Classroom gradebook from Edpuzzle when video is watched all the way to the end & show results button is checked <input type="checkbox"/> picture of or electronically submitted completed Molecular Shapes PHET activity <input type="checkbox"/> picture of or electronically submitted completed Practiec_SB_Molecular Geometry <input type="checkbox"/> picture of or electronically submitted completed Practice SB_Sumamry MoGeometry
Thursday: <ul style="list-style-type: none"> • Watch Edpuzzle Video on • Watch Edpuzzle Videos on • Save notes to submit when you have completed the module • Complete Molecular Polarity Interactive PHET Activity 	Molecule Polarity Polar and Nonpolar POGIL.pdf	<input type="checkbox"/> picture of or electronically submitted completed Molecular Polarity PHET activity <input type="checkbox"/> picture of or electronically submitted completed Polar and Nonpolar POGIL

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone at end of the week)
<ul style="list-style-type: none"> Complete Polar & Nonpolar POGIL 		
Friday: <ul style="list-style-type: none"> Complete Google Form Distance Learning Content Check 	Google Form to be Posted Friday Morning	<ul style="list-style-type: none"> <input type="checkbox"/> completed Distance Learning Google Form <input type="checkbox"/> Submit notes on Edpuzzle videos

Week criteria for success (attach student checklists or rubrics): By the end of this week, students should have:

- ☐ watched Edpuzzle videos and responded to embedded video questions where appropriate
- ☐ taken notes on weekly EdPuzzle videos and submitted notes to Google classroom
- ☐ completed Bond Energy POGIL
- ☐ completed practice Wkst 9-5_ Bond Energy Calculations
- ☐ completed Molecular Shapes PHET activity
- ☐ completed Practice_SB_Summary MoGeometry
- ☐ completed Molecular Polarity PHET activity
- ☐ completed Polar & Nonpolar POGIL
- ☐ completed Google Form Bond Enthalpy / Molecular Shape / Molecular Polarity Content Check

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)
- read and re-read the textbook
- watch and rewatch Edpuzzle videos
- practice worksheets and corresponding answer keys in Google Classroom