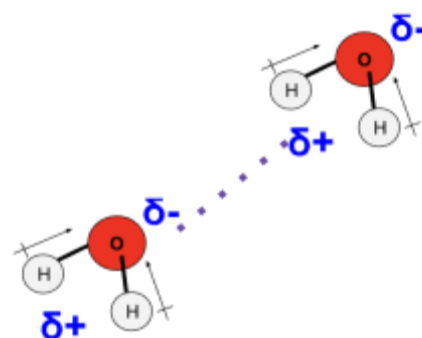


Unit 8: Covalent Bonding

- A. Covalent Bonding
 - a. Types of covalent bonds
 - b. Naming and formula writing
- B. Structural Formulas
 - a. single bonds
 - b. multiple bonds
 - c. resonance
 - d. exceptions to the octet rule
- C. Molecular Shape and Polarity
- D. Intermolecular forces and properties
 - a. Types of IMFs
 - b. How IMFs affect properties
 - c. Bond comparison between ionic, covalent, and metallic bonds



Activities and Assignments:

Description	Resources
Section 8A: Covalent Bonding Introduction	
8A Notes <i>Academic Responsibility</i>	Vocab link Teacher Notes If you are absent: Video for 8A notes
(WS 8A#1) Intro to Covalent Compounds <i>Academic Responsibility</i>	Key
Naming Small Compounds (WS 8A#2) <i>Academic Responsibility</i>	Key
Section 8B: Structural Formulas	
8B Notes <i>Academic Responsibility</i>	Vocab link Teacher Notes Videos for missed notes: Bond length and strength Structural formulas for single bonds Structural formulas for multiple bonds Resonance structures and exceptions
(WS 8B#1) Structural Formulas introduction <i>Academic Responsibility</i>	Key
(WS 8B#2) Structural Formulas--resonance and exceptions <i>Academic Responsibility</i>	Key
8A-B Quiz <i>Intra-unit assessment</i> Quiz overview: 32 points: - Covalent bonding basics - Naming of covalent and ionic compounds and diatomic elements - Structural formulas--single/multiple and resonance	Review ideas Quiz generator for naming <i>don't select acids or uncommon polyatomic ions</i> Google Form for concepts - For structures, repeat the ones in the notes and worksheets Wordle vocab review
Section 8C: Molecular Shape and Polarity	
8C Notes <i>Academic Responsibility</i>	Vocab link Teacher Notes Phet link Use this link to help you learn and see the

	various molecule shapes <i>Video Links for missed notes:</i> Molecular shapes introduction (page 1 and 2) Molecular shape examples (page 3 and 4)
Molecular Shapes Intro WS (WS 8C#1) <i>Academic Responsibility</i>	Key
More Molecular Shapes WS (WS 8C#2) <i>Academic Responsibility</i>	Key
Unit 8C Quizlet for molecular shapes <i>Academic Responsibility</i>	link
Section 8D: Intermolecular Forces and Properties	
8D Notes <i>Academic Responsibility</i>	Vocab link Teacher Notes IMF simulation and practice quizzes Links for notes IMF presentation Chemical Bond Comparison presentation
Introduction to IMF properties lab activity <i>Academic Responsibility</i>	Procedure 1 link Procedure 3 link Procedure 5 link <i>if you are absent:</i> • Lab sheet hardcopy • you can use this link for procedures 2 and 4 which you could try and home
IMF and properties WS (WS 8D) <i>Academic Responsibility</i>	hardcopy key
Alkane Boiling Point Activity <i>Intra-unit assessment</i>	
Unit 8D Quizlet on chemical bond comparison <i>Academic Responsibility</i>	link
Intermolecular Force CER <i>End of Unit Assessment</i>	procedure/molecular structures link
Unit 8 Review and End of Unit Assessment	
Unit 8 Vocab Test (optional)--21 points <i>End of Unit Assessment</i>	Unit 8 quizlet -- all vocab Test link you need to the code to access
Unit 8 Test <i>End of Unit Assessment</i> 54 points • Mostly multiple choice. Some matching • For many of the multiple choice questions, you will need to be able to draw the structures and shapes to answer the questions (for shape, bond angles, domain formulas, IMFs). These questions are worth 2-3 pts each. You need to show your work for full credit. • There is one short answer question • All molecules that you would need to draw are ones that we have covered as examples or homework!! Practice them again!!	Google Forms practice: Use a white board/scrap paper to draw these molecules. Then answer the questions on the google forms Oxygen dichloride molecule questions Carbon disulfide molecule questions Google Slides (put in presentation mode to hide answers) Review questions #1 examples of multiple choice questions Chemical bond comparison review Molecular Shapes and IMF review