

AP Chemistry

Bonding Assignment Sheet

Date	In Class	Assignment
3/3	Organic Friday: Esters Review FRQ (Kinetics)	Science Fair! Preview chapter 8 (highlight outline)
3/6	Review Lewis structures Expanded octets and electron domains Formal charge	Textbook problems 8.1, 8.2, 8.3 Start CALM problem set
3/7	Resonance and bond order (POGIL)	Listen to Strengths of Covalent Bonds webcast Work on CALM problem set
3/8 ER	Chapter 8/9 Problem Set	Work on CALM problem set Textbook problems 8.5, 8.6
3/9	VSEPR Geometries and Molecular Geometries (Library)	Finish activity if not completed in class
3/10	Organic Friday: Substitution Reactions Review FRQ (Equilibrium)	Work on CALM problem set Chapter 8 Summary card
3/13	Lattice Energy (POGIL)	Prelab assignment for Mole Ratios lab Text problems 8.97, 8.103
3/14	Mole Ratios in Chemical Reactions Lab (Guided Inquiry)	Work on Mole Ratios formal lab report
3/15 ER	POGIL: hybridization	Work on CALM problem set Read/highlight chapter 9 outline
3/16	POGIL: Properties of Covalent Bonds	Listen to Molecular Dipoles webcast
3/17	Short quiz on chapter 8 Organic Friday: Addition Reactions Review FRQ	Listen to Magnetism webcast Listen to Molecular Orbital Theory webcast
3/20 Long G	Using bond energy to predict ΔH_{rxn} Multiple bonds: sigma and pi overlap	Work on CALM problem set Text problems 9.1--9.8
3/21	Chapter 8/9 Problem Set Clicker questions	Work on CALM problem set Text problems 9.96, 9.99
3/22	Chapter 8/9 Problem Set Clicker questions	Finish CALM problem set by 9:00 pm on 3/24 Chapter 9 Summary card
3/23	Molecular Polarity	Beer's Law prelab assignment
3/24 long F	F Period: Beer's Law Lab (guided inquiry) A: Spectroscopic Techniques Jigsaw	Finish Mole Ratios formal lab report for 3/28
3/27	Chapter 8/9 Wrapup/review	
3/28 long A	A Period: Beer's Law Lab (guided inquiry) F: Spectroscopic Techniques Jigsaw	Study for Chapter 8/9 test
3/29	Ch. 8/9 Test	Work on Beer's law formal lab report

Skip Sections 9.7, 9.8—they are no longer part of the AP curriculum (but are relevant in terms of explaining why molecules are paramagnetic)

Webcasts

[Resonance](#)

[Lattice Energy](#)

[Hybridization](#)

[Formal Charge](#)

Web Resources

[Molecular Polarity](#) simulation from PhET There is also an html5 version

<http://chemistry2.csudh.edu/structures/hybrids/hwhybridization.html> Hybridization practice

*If you haven't already installed the LoggerPro software on your computer, you should do so this week—before you write up the Beer's Law lab report!