

Ch. 9-10- Selected Portions- Ionic & Covalent Bonding, Lewis Structures, VSEPR Shapes, & Hybridization

Topics	Video Title	Video Link	Length	Problems	Pages
Ionic bond, octet, octet rule, Lewis symbol (draw out the elements for the THIRD period), lattice energy, Born-Haber Cycle	Ionic Bonding	http://www.bozemanscience.com/ap-chem-020-ionic-bonding	4:18	CC 9.1, FP 9.1, Ch. 9 SAQ 1-3, 39, 41	383-390
Coulomb's Law (Draw and label picture WITH description in your own words (2-3 sentences) of diagram at used at 3:00 in video) <i>Side note: I've lost count of how many AP exam questions mention "Coulombic attraction"</i>	Coulomb's Law	http://www.bozemanscience.com/ap-chem-004-coulombs-law	5:00- stop at 5:01	Summarize trends in lattice energy on p. 391 AND connect it back to Coulomb's law, FP 9.2, FMP 9.2, Ch. 9 SAQ #5-6	391-393
Covalent bond, bonding pair, lone pair, dipole moment, formal charge, resonance	Covalent Bonding	http://www.bozemanscience.com/ap-chem-019-covalent-bonding chemguy video (exceptions to octet & formal charge)	7:01 3:22	CC 9.3, 49, FP 9.6, FP 9.7, FP 9.8, SAQ 10-SAQ 12	394-396 400-406

Single/double/triple bonds, bond energy, and bond length	Bond Length and Bond Energy (We did this with Thermochem)	http://www.bozemanscience.com/ap-chem-052-chemical-potential-energy	6:41	FP 9.11, FMP 9.11	412-415
<p>1. Write out examples 9.4 and 9.5 while paying attention to steps.</p> <p>2. Drawing label (with angles and terminal atoms) the five basic VSEPR shapes in section 10.2</p> <p>3. Take notes for electron geometry, molecular geometry, and bent</p> <p>Don't be clueless on this skill! https://www.youtube.com/watch?v=ijIOY0rfeL8</p>	Lewis Diagrams and VSEPR Models	http://www.bozemanscience.com/ap-chem-022-lewis-diagrams-vsepr-models Hybrids: Sigma & Pi bonds explained! Video The Molecular Shape of YOU (Ed Sheeran parody)	12:28 8:00	CC 10.1, CC 10.3, 10.4	427-435 & 445-460