CBLT4: In general, define and explain mol	ecules and molecular compounds.
Be able to define or explain the following:	
MoleculeCovalent bond	 Diatomic molecule Molecular compound Molecular compound
Textbook:	
• Page 216 #s 1, 2, 4, 6.	• Page 247 #s 39, 40, 41, 44.
CBLT5: Define and explain the different ty	ypes of covalent bonds.
Be able to define or explain the following:	
Single covalent bondStructure formulaUnshared pair	 Double covalent bond Triple covalent bond Coordinate covalent bond
Textbook:	
• Page 229 #s 13 – 16, 20.	• Page 247 #s 42, 45, 47.
CBLT6: Model and identify covalent bond	s with Lewis dot diagrams and structural diagrams.
Textbook:	
• Page 220 #s 7, 8.	• Page 229 # 21.
• Page 225 #s 9 – 12.	• Page 247 – 249 #s 46, 63, 64, 70, 73, 79, 80.
CBLT7: Define, explain and identify sigma	and pi bonds and molecular shapes using VSEPR theory.
Be able to define or explain the following:	
Molecular orbitalsBonding orbitals	 Sigma bond Pi bond VSEPR theory
Textbook:	
 Page 236 #s 23, 24, 27, 29. Page 247 #s 53, 54. 	• Page 248 – 249 #s 65, 68, 75
CBLT8: Define, explain, identify and apply	y polar and non-polar bonds and the different types of intermolecular forc
Be able to define or explain the following:	
 Nonpolar covalent bond Polar covalent pond Polar bond Polar molecule 	 Dipole Van der Waals forces Dipole interactions Dispersion forces Hydrogen bonds Network solids
Textbook:	
 Page 239 #s 30, 31. Page 244 #s 32 - 38. 	 Page 247 #s 57 - 61. Page 249 #s 72, 74 (research structures)
 Additional question: Explain why, at n bromine is a liquid and iodine is a soli 	normal temperature and pressure, compounds of fluorine and chlorine are gases, d.