Lecture Guide Please try and keep answers to single page	Bonding Between	Atoms	Due Feb 27 ,01 Name
I. Molecules1. Diagram the classification of matter.		3. What is the filling order for the orbitals of	the elements ?
2. What are the three classification for compout the electrons behave for each type	ands? Describe how	4. Are ions more reactive than ions? If not ex	xplain why.
3. Name the 6 ways to represent chemicals and4. Define the Octet rule. What are the exception		5. What is meant by a crystalline lattice. Giv compound that exist as a crystalline lattice	
5. Write the Lewis Dot structure for N and F.		6. IS the Octet rule always obeyed? Explain y	our answer.
6. What is the distance for which the most effe between occurs?	ective overlap	7. Define the principle of electrical neutrality.	
7. Explain Bohr Model of the atom.			
8. Explain why fluorine molecule possesses a oxygen molecule possesses a double bond?	single bond but an	8. What is the basis of the "Criss-Cross" meth	od?
9. Which two atoms will only form a single bo	ond?	9. When sodium combines with oxygen what chemical which forms?	is the name of the
10. How many total bonds are in formaldehyde	?	10. What are oxy ions?	
11. Define the following in the context of Lew Connectivity Number of Bonds	is Structures:	11. Name the five elements whose oxy anion four oxygen in its formula.	name the –ate has
Remaining electrons		12 Name the acid in which bromite is the anio	n.
12. How many valence electrons does the CO ₂	molecule have?	13. What experiment might prove that a salt d ions being solvated by water?	issolves by its
13. How many total bonds are in the perchlorat	te ion?		

14. How many total bonds in the SO₂ molecule?

II. Ionic Compounds

- 1. Define Electronegativity
- 2. By how much must the difference in electronegativity be between two atom for the compound to be polar covalent? What is the difference in order for the compound to be ionic?

II. Chemical Nomenclature

- 1. How many atoms does a binary compound contain?
- 2. What information will yield the type of compound
- 3. What type of compound is a type III?