## Chapter 6 - Chemical Bonding

	ntroduction to Chemi	cal Bonding			
	<u>– Intro</u> A <b>chemical bond</b> is a mutual between the nuclei and				
1. /	A <u>chemical bond</u> is a mutual between the nuclei and electrons of different atoms that binds the atoms together.				
2 Py handing with each other, stome decrease in				thereby	
	By bonding with each other, atoms decrease in, thereby creating more arrangements of matter.				
•	oreaming more	arrangements o	Triation.		
R.	- Types of Chemical E	Ronding			
	lonic bonding is chemical bonding that results from the attraction between la				
	and electrons to other atoms.  a. In purely ionic bonding, atoms completely electrons to other atoms.  Covalent bonding results from the of electron between two atoms at a purely covalent bond, the shared electrons are " by			electrons to other atoms.	
2. (	Covalent bonding res	ults from the	of electron	between two atoms.	
	a. In a purely cov	alent bond, the shared elec	ctrons are "	by	
	the two bonded	atoms			
3.	The degree to which bo	onding between atoms of tw	vo elements is	or	
can be estimated by calculating the				in the elements'	
_	, , , ,				
ł. 7	A <u>nonpolar covalent bond</u> is a covalent bond in which the bonding electrons are by the bonded atoms, resulting in a distribution of				
•	electrical charge.	•		<del></del>	
i. /	A <u>polar covalent bond</u> is a covalent bond in which the bonded atoms have an				
á	attraction for the shared electrons (and a resulting unbalanced distribution of charge).				
. (	Complete the following table to summarize this section:				
	Bond Type	% Ionic Character	Electronegativity	Bonding electrons	
	1		difference	are	
	Ionic	Greater than%	Greater than	Transferred	
	Polar covalent	As high as%	As high as	Shared unequally	
		1			
		As low as%	As low as		
	Nonpolar covalent	As high as%	As high as	Shared equally	
		As low as %	As low as		
**0	n a separate piece of p	aper, answer Chapter Rev	view Problems #33& 3	34 from page 196. Attach your	
nswers to THIS PAGE!					
-2	Covalent Bonding and	Molecular Compounds			
	- Intro				
. 7	A molecule is a group of atoms that are held together by				
- 1	to a soule				
2. /	A molecular compound is a chemical compound whose units are molecules.				
	A chemical formula indicates the numbers of atoms of each kind in a chemical				
	A <u>chemical formula</u> indicates the numbers of atoms of each kind in a chemical compound by using atomic and numerical				
	a. A molecular formula shows the types and numbers of atoms combined in a				
	molecule of a molecular (covalently bonded) compound.				
	A diatomic molecule is a molecule containing only atoms.				
	Furn to page 243 in your book, and look at Table 8-1. Make a list here of the seven elements that occur in				
	nature as diatomic molecules:				
			mbol Molecula	ar Formula	