Name _							Date	
		_	_	<b>6 0</b> 1	_	 _		

## **Basics of Chemical Bonds**

formed between the a	toms and a	is created.
Dondo		
Bonds	or	alastrans thay dayalan a
		electrons they develop a
	_ and are called , an ion is an atom with a positi	
	will	
	ions, or cations.	cicctions to form
	-1), Alkaline Earth Metals (+2),	and Boron Group (+3)
		electrons to form
o,	ions, or anions.	
<ul> <li>Halogens (-1), (-1)</li> </ul>	Dxygen Group (-2), and Nitroge	n Group (-3)
		be near an atom that will accept that electron
		itoms become two
	, , , , , , , , , , , , , , , , , , ,	
lons with opposite cha	rges attract each other and joi	n together by forming
• • • • • • • • • • • • • • • • • • • •	,	o , o
	ys consist of aions that are	attracted to each other due to their opposite
charges.		
ent Bonds		
	are able to	
	are able to	
Since they don't gain o	 or lose electrons, they do not do	evelop a charge and
o		
When atoms join toge	ther by sharing valence electro	ns they form
		,
When atoms share val	ence electrons, those	will
	around	will of the atom's
Compounds formed w	ith covalent bonds are called	
		can form covalent bonds.
		<del></del>
llic Bonds		
When		
-	they have a completely d	lifferent way of forming honds that makes the

	bonds	and gives metals the prop	erties for which				
	they are known.						
	<ul> <li>Ductile, malleable, conductive, luster</li> </ul>						
	When metals atoms are grouped together, the valence electr	ons feel just as much attra	ction to the				
	nuclei of other metals as they do their own nucleus.						
	As a result,						
	their individual atoms.						
	When the valence electrons leave their individual atoms, it re	esults in a group of positive					
			by a sea of				
	u n	·					
•	Delocalized electrons no longer belong to any one metal catio	on, instead they float freely	between all of				
	the metal cations forming what is called a "		"·				
•	The attraction between the sea of electrons and the positively charged nuclei is called a						
		·•					
•		can	form metallic				
	bonds with other metal atoms to create metallic compounds.						