Note	Taking	Guide:	Episode	501		

Name

A <u>chemical bond</u> - forms when 2 or more atoms rearrange
to increase
ionic bond - forms when valence are
from one atom to another
cation - atom electrons to become charged
anion - atom electrons to become charged
In ionic compounds the ions are arranged in a
forces hold the ions together.
Properties of ionic compounds:
high and points
 not easily
 or
because the ions are free to
covalent bond are, forming
Covalent compounds have forces holding the together.
Properties of covalent compounds:
 lower and points
 Many covalent compounds are liquids or gases.
 easier to
are not of electricity
electronegativity - property that tells how strong an atom'sis for
Since oxygen has a electronegativity than hydrogen, oxygen
holds onto shared electrons, giving the oxygen a
negative charge and the hydrogen a partial charge.

polar covalent bonds:electrons are sharedor	, creating partially charged ends					
nonpolar covalent bonds: • electrons are sharedelectronegativities	because atoms have the same					
Electonegativity difference:	Type of Bond					
greater than or equal to 1.7						
between 1.7 and 0.3						
less than or equal to 0.3						
Examples: Mg and F?	S and O?					
Program 501, problem set 1:						
metallic bond - electrons are (creates a " of") properties of metals: 1. 2. 3. 4.						
The Chemistry Quiz						
CR1 CR2	1					
3	4					

CHEMISTRY: A Study of Matter $^{\circ}$ 2004, GPB 5.2