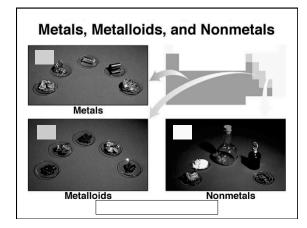
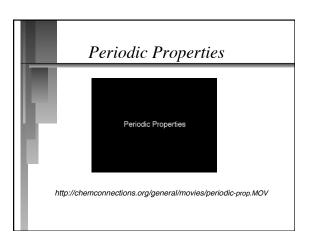
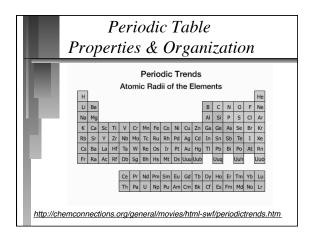
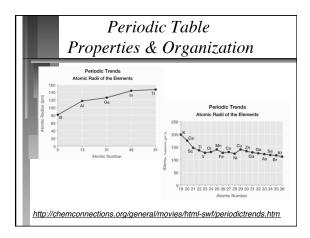


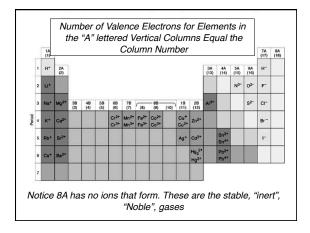
	Electrons, Configurations, & Bonds Noble Gases and The Rule of Eight
ð	When a nonmetal and a metal combine, they form an ionic bond : Valence electrons of the metal are lost and the nonmetal gains these electrons to achieve a Noble gas electron configuration.
ð	When two nonmetals combine, they form a covalent bond : They share electrons to achieve a Noble gas electron configuration.



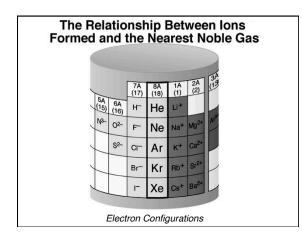


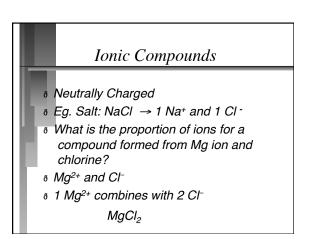






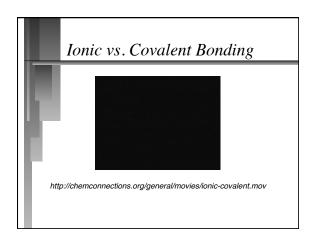
Ionic Bonds
Result from electrostatic attractions of closely packed, oppositely charged ions.
Form when an atom which can easily lose electrons reacts with one which has a high electronegativity (electron affinity), that is, it can easily gain electrons.
∞ Eg. Mg and Cl; K and O

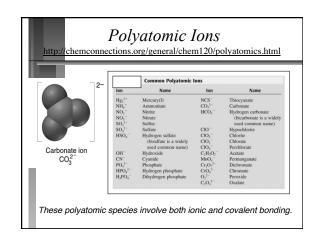




QUESTION							
	aluminum an	,,,					
	A) Al ₂ O ₃	B) Al ₃ O ₂	C) Al ₂ O	D) AIO ₂			
Γ.							

	ANSWER								
	Predict the formula for the binary ionic compound formed by aluminum and oxygen.								
Γ	A) Al ₂ O ₃	B) Al ₃ O ₂	C) Al₂O	D) AIO ₂					

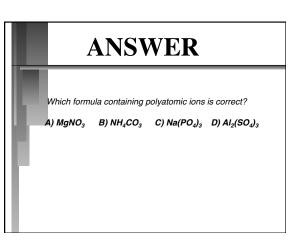


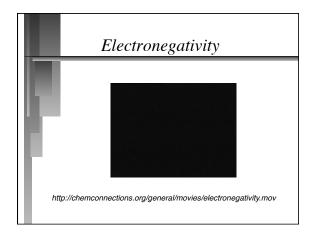


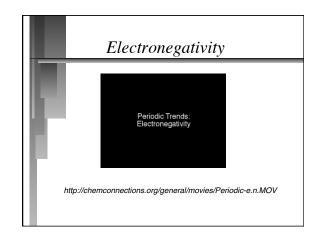
QUESTION

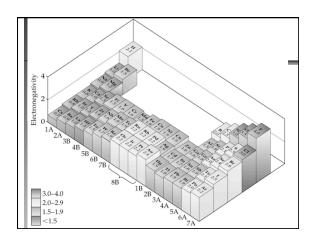
Which formula containing polyatomic ions is correct?

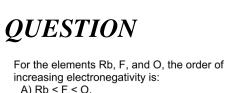
A) $MgNO_3$ B) NH_4CO_3 C) $Na(PO_4)_3$ D) $AI_2(SO_4)_3$



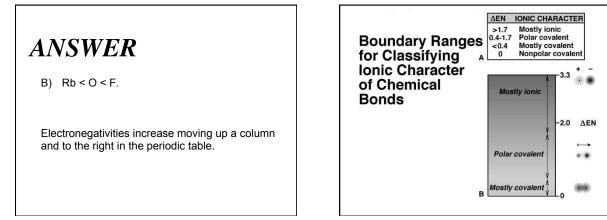








increasing electronegativity is: A) Rb < F < O. B) Rb < O < F. C) O < F < Rb. D) F < Rb < O. E) none of these.



QUESTION

Atoms having greatly differing electronegativities are expected to form:

- 1) no bonds.
- 2) polar covalent bonds.
- 3) nonpolar covalent bonds.
- 4) ionic bonds.
- 5) covalent bonds.

ANSWER

D) ionic bonds.

If two atoms have greatly differing electronegativities the more electronegative atom will pull on the bonding electrons so strongly the electrons will transfer from one atom to the other.

