

Name _____ Period _____

CP Chemistry of the Earth

Assignment 3K – Binary Ionic Compounds of Representative Elements

20 Points

Complete the following ionic compounds based on the chart below using the cross method.

Elements	(1) K	(17) F
Ion Charge	+1	-1
Cross Method	show K F K F work!	
Ionic Formula	KF	

Be	I

Al	Br
(13) +3	(17) -1
Al Br Al Br	
AlBr ₃	

Elements	Na	O
Ion Charge		
Cross Method		
Ionic Formula		

K	P

(2) Mg	(5) N
+2	-3
Mg N Mg N	
Mg ₃ N ₂	

Elements	Al	S
Ion Charge		
Cross Method		
Ionic Formula		

(14) Si	(17) Cl
+4*	-1
Si Cl Si Cl	
SiCl ₄	

Sr	I

Reduced by
Arp.

*C = -4 Si = +4 Sn/Pb = +2 or +4