Name _____ Period _____

Freshmen Transition

Assignment 2E – Applications of the Octet Rule 30 Points

For the following atoms and ions determine the given information

Element	Symbol	Valence Electrons	Ion Charge	Cation or Anion	Lose or Gain Number e⁻	Ion Val Electrons
Sodium	Na	1	+1	Cation (+ Ion)	lose 1e⁻	0
Magnesium	Mg					
Potassium	K					
Aluminum	Al					
Nitrogen	N					
Antimony	Sb		+5			
Helium	He					
Phosphorous	P					
Bromine	~~Be~~ Br					
Selenium	Se					
Carbon	C	4	-4	Anion	gain 4e⁻	8
Zinc	Zn		+1			
Copper*	Cu		+2			
Iron*	Fe	3	+3	Cation	lose 3e⁻	0
Titanium*	Ti		+4			
Tungsten*	W		+6			

*Follows template of elements with given charge: i.e. +3 = 3 val. e⁻, Lose 3 e⁻, 3+ Ion Charge