

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 1K – Periodic Table and Periodic Trends (Part 2)

20 Points

Complete the following chart for each element given below.

Element	Group Number	Period Number	Element Type	Element	Group Number	Period Number	Element Type
Magnesium	2	3	Rep. Metal	Sulfur			
Potassium				Argon	18	3	Non-Metal
Yttrium				Silicon			
Aluminum				Nitrogen			
Zinc				Iodine			
Silver				Boron			
Cerium				Uranium	None	7	Rare Earth Element

Complete the following chart based on periodic table trends

Period Trend *Increase down*
Elements: O, S, Se (group 16) *group*

Group Trends *Decrease across*
Elements: B, C, N (period 2) *period*

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size	O	S	Se

Elements: Li, Na, Fr (group 1)

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size			

Elements: Ni, Pd, Pt (group 10)

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size			

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size	N	C	B

Elements: Na, Mg, Al (period 3)

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size			

Elements: Zr, Nb, Mo (period 5)

Atomic Trend	Element Order		
	Small → Large		
Increasing Atomic Size			

2
2A
12
Mg
24.31

18
8A
18
Ar
39.95

None
92
U
238.03

2
3
4
O
S
Se

B
C
N