

Name _____ Period _____

Freshmen Transition

Assignment 3G – Periodic Trends Part 1 – Atomic and Ion Structure

20 Points

Complete the following chart based on the atomic structure of the elements below

Periodic Groups

Element	Symbol	Group	Period	Val e ⁻	Inner EL	Outer EL
Lithium	Li					
Sodium	Na					
Potassium	K					
Rubidium	Rb					
Cesium	Cs					

Periodic Periods

Element	Symbol	Group	Period	Val e ⁻	Inner EL	Outer EL
Aluminum	Al					
Silicon	Si					
Nitrogen	N					
Oxygen	O					
Fluorine	F					

Complete the following chart based on the periodic trends for atomic size / ion size

Atomic Size Trends

Define the <i>group</i> trends for atomic size	Define the <i>period</i> trend for atomic size
Explain the <i>group trend</i> above	Explain the <i>period trend</i> above

Ion Size Trends

Define the <i>ion size trend</i> for <i>cations</i> (+ ion)	Define the <i>ion size trend</i> for <i>anions</i> (- ion)
Explain the <i>cation trend</i> above	Explain the <i>anion trend</i> above