

Name _____ Period _____

Freshmen Transition

Assignment 3I – Atomic Structure and Valence Electrons

20 Points

Define the following terms based on the atomic structure

Bohr's Model	Modern Atomic Model
Orbits	Orbitals
Inner Shell Electrons	Outer Valance Electrons
Electron Spin (+1/2, -1/2)	Orbital Set (s and p _x , p _y , p _z)

Lewis Dot Structure Chart for Representative Elements

1 valence e ⁻ 	2 valence e ⁻ 	3 valence e ⁻ 	4 valence e ⁻ 	5 valence e ⁻ 	6 valence e ⁻ 	7 valence e ⁻ 	8 valence e ⁻ 
A	B	C	D	E	F	G	H

For the following elements determine the group (modern and traditional), the number of valance electrons, and the lewis dot structure (write letter for structure)

Element	Symbol	Group (Traditional)	Group (Modern)	Group Name	Valence Electrons	Lewis Dot Structure
Beryllium	Be					
Potassium	K					
Aluminum	Al					
Phosphorous	P					
Silicon	Si					
Argon	Ar					
Fluorine	F					
Sulfur	S					

