CP Chemistry of	of t	he Earth	:											
Assignment 4B – Atomic Structure Review ( <i>Part 1 – Electrons and the Octet Rule</i> ). 20 Points														
Define the follo	wii	ng terms	based or	the aton	iic stri	ıctur	e revie	W						
Bohr Model (of the atom)							Electron Cloud Model (of the atom)							
Inner Electrons							Outer (Valence) Electrons							
Answer the foll	owi	ing ques	tions base	ed on the	atomi	c stri	ıcture							
What structure is in the center of the atom, and							What are the role of the outer (valance)							
what is contained in that structure?							electrons in the atomic structure?							
							What is a lewis dot structure, and what is a							
What is the octet rule for atomic structure?							lewis dot structure used for?							
The following i	s a	chart sh	owing the	e group a	nd val	ance	electro	ons v	v/Le	wis D	ot S	Structure	es	
Group Number		1A	2A	1B -	3A		4A	5A		6A		7A	8A	
		1	2	10B	13		14		15			17	18	
Valance Electrons (e <sup>-</sup> )		1	2	2	3		4		5	6		7	8	
Lewis Dot		X٠	٠X٠	٠х٠	·X·		٠ķ٠		ζ:	: <b>X</b> :		·Y·	:X:	
Structure		Λ	^	^	Ņ		Ņ	•	· · ·	·Ņ	•	:X:	·Ÿ.	
Complete the fo	ollo	wing ch	art based	on the ch	hart ab	ove								
Element	Mg		S B		ŀ	ζ								
Symbol		1,18			ļ -									
Element Name							Oxygen		Xenon		Calcium		Sodium	
Group														
Number														
Valance Electrons														
Lewis Dot					1									
Structure*														

Name \_\_\_\_\_\_ Period \_\_\_\_\_

<sup>\*</sup> Copy and Paste from Table Above