Name	Period					
College Prep Chemistry of the Earth						
Assignment 3C – Basic Covalent Bo	nding + Dot	Structure Review	,		30 Points	
Answer the following questions						
What is a single covalent bo	What is a diatomic element?					
Complete the dot and structural form	ıula for the f	following diatomic	elemeni	ts.		
Diatomic Fluorine (F ₂)		Diatomic Fluorine (Cl ₂)				
Diatomic Element Dot Structure		Diatomic Element Dot Structure				
F F			C1	C1		
I I		C	⁄I	CI		
Diatomic Element Structural Formula		Diatomic Element Structural Formula				
F F			21	C1		
1			1	O1		
Complete the dot and structural formula for the following simple molecules elements.						
Water (H ₂ O)		NH ₃ (Ammonia)				
Diatomic Element Dot Structure		Diatomic Element Dot Structure				
Н О		Н	N		H	
Н			Н			
11			11			
Diatomic Element Structural Formula		Diatomic Element Structural Formula				
Н О		Н	N		Н	
П			Ц			
H			Н			

Complete the following chart for lewis dot structures for both neutral and ion structures

Neutral	Lewis Dot	Valence	Ion	Lewis Dot	Valence
Atom	Structure	Electrons	Ion	Structure	Electrons
Ti (4 val e)			Ti ⁴⁺		
Ва			Ba ²⁺		
V (3 val e ⁻)			V^{3+}		
As			As ³⁻		
At			At ¹⁻		
Ne					