Name
 Date
 Period

ELECTRON DOT STRUCTURES

C405 Chemistry

Part 1 Write the number of valence electrons and show the dot structure for each element.

Element	# Valence Electrons	Dot Structure	Element	# Valence Electrons	Dot Structure
Hydrogen			Sulfur		
Helium			Chlorine		
Lithium			Argon		
Beryllium			Potassium		
Boron			Calcium		
Carbon			Scandium		
Nitrogen			Titanium		
Oxygen			Vanadium		
Fluorine			Chromium **	1	
Neon			Manganese		
Sodium			Iron		
Magnesium			Cobalt		
Aluminum			Nickel		
Silicon			Copper **	1	
Phosphorus			Zinc		

**exceptions

Part 2- Show the electron dot diagrams for these reactants and compounds

Lithium Chloride	Magnesium Oxide		
Li + Cl → Li Cl	Mg + O → Mg O		

Part 3- INFERENCES AND RELATED QUESTIONS

1. Look at the electron dot structures for hydrogen, lithium, sodium and potassium. What similarity do you see?

2. Based on question #1, draw the dot structure for rubidium and relate to periodic trends.

3. Look at the electron dot structures for lithium, beryllium, boron, carbon, nitrogen, oxygen, fluorine, and neon. Can you identify a trend? If so, describe it.

4. How do your findings from question #3 relate to periodic trends?