

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

College Prep Chemistry of the Earth

Assignment 5A – Ionic Lewis Dot Structures

20 Points

*Define the following terms*

Define Inner Electrons	Define Valence Electrons
Define Ionic Bond	Define Ionization Energy

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

Neutral Atom	Lewis Dot Structure	Valence Electrons	Ion	Lewis Dot Structure	Valence Electrons	Lose or Gain e <sup>-</sup>
Na			Na <sup>1+</sup>			
Ca			Ca <sup>2+</sup>			
Al			Al <sup>3+</sup>			
N			N <sup>3-</sup>			
S			S <sup>2-</sup>			
Cl			Cl <sup>1-</sup>			

*Answer the following questions*

Explain how ions form overall	Explain the octet rule and loss/gain of e <sup>-</sup>