

**211 Chapter 2: Section 3: Annotated Reading Guide (18pts)**

*To receive credit:*

- *Write all answers in your bound journal*
- *When working a problem, show all your math and box your final answer*
- *2pt title the entry*
- *2pt date the entry*

1. What is an ion? What are the two different types of ions?
2. What happens to the size of the sodium atom when it loses an electron? What happens to the size of the chlorine atom when it gains an electron? Why do they change?
3. What is a polyatomic ion?
4. Draw out predicted charges periodic table on the bottom of page 56 (figure 2.20). You must memorize this table! What is the pattern that you see?
5. Write out the last two sentences on page 56 (it has *italicized* words)
6. Chemical compounds are always electrically \_\_\_\_\_. Explain this concept with the two compounds, sodium chloride and barium chloride.
7. What six elements make up 97% of the mass of living organisms? What is the most common compound?
8. What are five ions required by all living organisms?
9. What is the difference between organic and inorganic compounds?