Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**REVIEW STATION 10: Ions and Ionic Compounds**

Below are questions related to ionic compounds and ionic compound formation. Use your quiz results to determine which problem you need to complete.

If you missed a problem on the quiz, complete the problem with the SAME NUMBER below. **ANSWER QUESTIONS ON SEPARATE SHEET OF PAPER.**

1. How is an ion formed?
2. What is the charge of an oxygen ion? Why does this charge exist?
3. When Aluminum forms an ion it will have a charge of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so that it has a valence of \_\_\_\_\_\_\_\_\_\_\_.
4. Cations form \_\_\_\_\_\_\_\_\_\_\_ ions because they \_\_\_\_\_\_\_\_\_\_\_\_\_ electrons. Anions form \_\_\_\_\_\_\_\_\_\_\_ ions because they \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons.
5. A new element with 113 protons would form an ion with what charge?
6. List 3 properties of an ionic compound?
7. Draw the Lewis dot diagram for sodium oxide.
8. An ionic bond is formed when cations \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. What is the chemical name for Ni(NO3)3?
10. What is the chemical name for K2S?
11. What is the chemical formula for Chromium (II) Nitride?
12. Which of the following is NOT an ionic compound: Al2O3, NaCl, NO2? Explain.
13. How do you name an ionic compound?

Free Response Problems

1. Draw the Lewis dot diagram for Calcium Phosphide.
2. Draw the Lewis dot diagram for Aluminum Chloride.
3. Draw the Lewis dot diagram for Cobalt (III) Fluoride.