

College Prep Chemistry of the Earth System

Assignment 5J

40 Points

Single Replacement Reactions

Complete the following ionization

decomposition reactions. $[A^+ + B^-]$

1. ____ $\text{Na}_2\text{S} \rightarrow$
2. ____ $\text{Mg}_3\text{P}_2 \rightarrow$
3. ____ $\text{Cu}(\text{ClO}_3)_3 \rightarrow$ [Cu = +3]
4. ____ $\text{Zn}_2\text{SO}_4 \rightarrow$ [Zn = +1]
5. ____ $\text{W}(\text{CrO}_4)_3$ [W = +6]

For the following reactants find products
complete the reaction given. Show Work!

6. ____ $\text{Li} +$ ____ $\text{SrF}_2 \rightarrow$
7. ____ $\text{Na} +$ ____ $\text{AlBr}_3 \rightarrow$
8. ____ $\text{Co}^{3+} +$ ____ $\text{SnO}_2 \rightarrow$
9. ____ $\text{Ni}^{2+} +$ ____ $\text{FeP} \rightarrow$
10. ____ $\text{Cu}^{3+} +$ ____ $\text{AgNO}_3 \rightarrow$
11. ____ $\text{Cd}^{1+} +$ ____ $\text{Pb}(\text{BrO}_3)_4 \rightarrow$
12. ____ $\text{Li} +$ ____ $\text{Cd}_3(\text{PO}_4)_2 \rightarrow$
13. ____ $\text{Mg} +$ ____ $\text{Mn}(\text{NO}_3)_3 \rightarrow$
14. ____ $\text{Co}^{2+} +$ ____ $\text{Au}_2\text{CO}_3 \rightarrow$
15. ____ $\text{V}^{3+} +$ ____ $\text{Ag}_3\text{PO}_4 \rightarrow$