College Prep Chemistry of the Earth System

Assignment 5F 30 Pts Total

Double Replacement w/Polyatomic Balancing

For the following chemical equations balance the equation. Show balancing chart.

1. ___ $Ca(OH)_2$ + ___ Zn_2SO_4 →

   ___ $CaSO_4$ + ___ $ZnOH$

2. ___ $Al(ClO_3)_3$ + ___ $MgSO_4$ →

   ___ $Al_2(SO_4)_3$ + ___ $Mg(ClO_3)_2$

3. ___ K_3PO_4 + ___ $Ca(NO_3)_2$ →

   ___ KNO_3 + ___ $Ca_3(PO_4)_2$

4. ___ $SrCl_2$ + ___ $V_2(CO_3)_3$ →

   ___ $SrCO_3$ + ___ VCl_3

5. ___ Y_2O_3 + ___ $Ni(C_2H_3O_2)_2$ →

   ___ $Y(C_2H_3O_2)_3$ + ___ NiO

6. ___ $Pb(C_2O_4)_2$ + ___ $Cr(OH)_2$ →

   ___ $Pb(OH)_4$ + ___ CrC_2O_4

7. ___ $CuPO_4$ + ___ Zn_2CO_3 →

   ___ $Cu_3(CO_3)_2$ + ___ Zn_3PO_4

8. ___ Zr_2CrO_4 + ___ $Fe(OH)_3$ →

   ___ $ZrOH$ + ___ $Fe_2(CrO_4)_3$

9. ___ $Pd(IO_3)_2$ + ___ $Sn(SO_4)_2$ →

   ___ $PbSO_4$ + ___ $Sn(IO_3)_4$

10. ___ $W(CO_3)_3$ + ___ $Ni(NO_3)_3$ →

    ___ $W(NO_3)_6$ + ___ $Ni_2(CO_3)_3$