

## AP WORKSHEET 04G: ANSWERS

1.

- (a)  $K_2S \rightarrow 2K^+_{(aq)} + S^{2-}_{(aq)}$
- (b)  $Ni(NO_3)_2 \rightarrow Ni^{2+}_{(aq)} + 2NO_3^-_{(aq)}$
- (c)  $MgSO_4 \rightarrow Mg^{2+}_{(aq)} + SO_4^{2-}_{(aq)}$
- (d)  $Na_3PO_4 \rightarrow 3Na^+_{(aq)} + PO_4^{3-}_{(aq)}$
- (e)  $(NH_4)_2CO_3 \rightarrow 2NH_4^+_{(aq)} + CO_3^{2-}_{(aq)}$

2.

- (a) I
- (b) S
- (c) I
- (d) I
- (e) S
- (f) I
- (g) S
- (h) S
- (i) SAs
- (j) S



ADRIAN DINGLE'S  
Chemistry Pages

3.

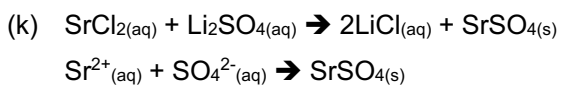
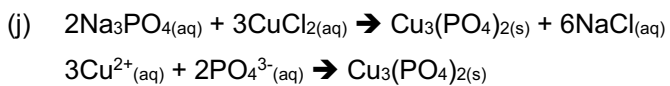
- (a) NO REACTION
- (b)  $Pb(NO_3)_{2(aq)} + (NH_4)_2CrO_4 \rightarrow PbCrO_{4(s)} + 2NH_4NO_{3(aq)}$   
 $Pb^{2+}_{(aq)} + CrO_4^{2-}_{(aq)} \rightarrow PbCrO_{4(s)}$
- (c) NO REACTION
- (d)  $2AgNO_3 + Na_2SO_4 \rightarrow 2NaNO_3 + Ag_2SO_{4(s)}$   
 $2Ag^+_{(aq)} + SO_4^{2-}_{(aq)} \rightarrow Ag_2SO_{4(s)}$
- (e)  $2K_3PO_{4(aq)} + 3Co(NO_3)_{2(aq)} \rightarrow 6KNO_{3(aq)} + Co_3(PO_4)_{2(s)}$   
 $3Co^{2+}_{(aq)} + 2PO_4^{3-}_{(aq)} \rightarrow Co_3(PO_4)_{2(s)}$

(f) NO REACTION

(g) NO REACTION

(h) NO REACTION

(i) NO REACTION



*(No Reaction = 1 point, others 4 points each)*

