Balancing Equations Handout #2 Balance these skeleton reactions. Use phase symbols, indicate what reaction type they are (S, D, SR, DR, or Comb)	Reaction type
$\_\_C_3H_{8(G)} + \_\_O_{2(G)} \rightarrow$	
$\_\_(NH_4)_2S_{(AQ)} + \_\_Al(NO_3)_{3(AQ)} \rightarrow$	
$\_\_Ba_3P_{2(S)} \rightarrow$	
$\_\_Al + \_\_O_{2(G)} \rightarrow \_\_Al_2O_{3(S)}$	
$\_\_Na_2SO_{4(AQ)} + \_\_SrCl_{2(AQ)} \rightarrow$	
$\_\_Fe_{(S)} + \_\_CuCl_{2(AQ)} \rightarrow \_\_FeCl_{3(AQ)} + \_\_Cu_{(S)}$	
$\_\_C_8H_{18} + \_\_O_{2(G)} \rightarrow$	
$\_\_Co_{(S)} + \_\_S_{(S)} \rightarrow \_\_Co_2S_{3(S)}$	
$\_\_KNO_{3(S)} \rightarrow \_\_KNO_{2(S)} + \_\_O_{2(G)}$	
$\_\_Cl_{2(G)} + \_\_LiBr_{(AQ)} \rightarrow$	
$\_\_Al(NO_3)_{3(AQ)} + \_\_(NH_4)_2SO_{4(AQ)} \rightarrow$	
$\_\_Pb(NO_3)_{2(AQ)} + \_\_LiF_{(AQ)} \rightarrow$	
$\_\_BeF_{2(S)} \rightarrow \_\_Be_{(S)} + \_\_F_{2(G)}$	

ANSWERS	Reaction type
$C_3H_{8(G)} + 5O_{2(G)} \rightarrow 3CO_{2(G)} + 4H_2O_{(G)}$	Comb
$3(NH_4)_2S_{(AQ)} + 2Al(NO_3)_{3(AQ)} \rightarrow 6NH_4NO_{3(AQ)} + Al_2S_{3(S)}$	DR
$Ba_3P_{2(S)} \rightarrow 3Ba_{(S)} + 2P_{(S)}$	D
$4Al + 3O_{2(G)} \rightarrow 2Al_2O_{3(S)}$	S
$Na_2SO_{4(AQ)} + SrCl_{2(AQ)} \rightarrow 2NaCl_{(AQ)} + SrSO_{4(S)}$	DR
$2Fe_{(S)} + 3CuCl_{2(AQ)} \rightarrow 2FeCl_{3(AQ)} + 3Cu_{(S)}$	SR
$2C_8H_{18} + 25O_{2(G)} \rightarrow 16CO_{2(G)} + 18H_2O_{(G)}$	Comb
$2Co_{(S)} + 3S_{(S)} \rightarrow Co_2S_{3(S)}$	S
$2KNO_{3(S)} \rightarrow 2KNO_{2(S)} + 3O_{2(G)}$	D
$Cl_{2(G)} + 2LiBr_{(AQ)} \rightarrow Br_{2(L)} + 2LiCl_{(AQ)}$	SR
$2Al(NO_3)_{3(AQ)} + 3(NH_4)_2SO_{4(AQ)} \rightarrow Al_2(SO_4)_{3(S)} + 6NH_4NO_{3(AQ)}$	DR
$Pb(NO_3)_{2(AQ)} + 2LiF_{(AQ)} \rightarrow PbF_{2(S)} + 2LiNO_{3(AQ)}$	DR
$BeF_{2(S)} \rightarrow Be_{(S)} + F_{2(G)}$ (balanced as is)	D