Mixed Type Practice for Predicting Reactions

	Reaction Type	Reactants	Products
1		$Al + Pb(NO_3)_2$	
2		$Al + CuCl_2$	
3		$Fe + AgC_2H_3O_2$	
4		$Fe(OH)_3 \rightarrow$	
5		$K_2CO_3 + BaCl_2 \rightarrow$	
6		$Ca(OH)_2 + H_3PO_4 \rightarrow$	
7		$Cd_3(PO_4)_2 + (NH_4)_2S \rightarrow$	
8		$C_{25}H_{52} + O_2 \rightarrow$	
9		$Cl_2 + NaI \rightarrow$	
10		$C_6H_6 + O_2 \rightarrow$	
11		$MgCl_2 + O_2 \rightarrow$	
12		$Ni(ClO_3)_2 \rightarrow$	
13		$Na + O_2 \rightarrow$	
14		$BeO + CO_2 \rightarrow$	
15		$HNO_2 \rightarrow$	
16		$Cr_2(SO_3)_3 + H_2SO_4 \rightarrow$	
17		$C_{12}H_{22}O_{11} + O_2 \rightarrow$	
18		$BaO + CO_2 \rightarrow$	
19		$Ag_2O \rightarrow$	
20		$AgC_2H_3O_2 + K_2CrO_4 \rightarrow$	

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	Reaction Type	Reactants	Products
1	single replacement	$2Al + 3Pb(NO_3)_2$	$\longrightarrow 2Al(NO_3)_3 + 3Pb$
2	s. rep.	$2Al + 3CuCl_2$	$\longrightarrow 2AlCl_3 + 3Cu$
3	s. rep.	$Fe + 3AgC_2H_3O_2$	$\longrightarrow Fe(C_2H_3O_2)_3 + 3Ag$ (Fe^{3+})
4	decomposition	$2Fe(OH)_3 \rightarrow$	$\longrightarrow Fe_2O_3 + 3H_2O$
5	double replacement	$K_2CO_3 + BaCl_2 \rightarrow$	$\longrightarrow 2KCl + BaCO_3$
6	double replacement	$Ca(OH)_2 + H_3PO_4 \rightarrow$	$Ca_3(PO_4)_2 + 6H_2O$
7	dbl. rep.	$Cd_3(PO_4)_2 + 3(NH_4)_2S \rightarrow$	$3CdS + 2(NH_4)_3PO_4$
8	combustion	$C_{25}H_{52} + 38O_2 \rightarrow$	$25CO_2 + 26H_2O$
9	s. rep.	$Cl_2 + 2NaI \rightarrow$	$2NaCl + I_2$
10	combustion	$2C_6H_6 + 15O_2 \rightarrow$	$12CO_2 + 6H_2O$
11	combination or synthesis	$MgCl_2 + 3O_2 \rightarrow$	$Mg(ClO_3)_2$
12	decomposition	$Ni(ClO_3)_2 \rightarrow$	$NiCl_2 + 3O_2$
13	combination or synthesis	$4Na + O_2 \rightarrow$	$2Na_2O$
14	synthesis or combination	$BeO + CO_2 \rightarrow$	$BeCO_3$
15		$HNO_2 \rightarrow$	
16	dbl. rep.	$Cr_2(SO_3)_3 + 3H_2SO_4 \rightarrow$	$Cr_2(SO_4)_3 + 3H_2SO_3$
17	combustion	$C_{12}H_{22}O_{11} + 12O_2 \rightarrow$	$12CO_2 + 11H_2O$
18	synthesis or combination	$BaO + CO_2 \rightarrow$	$BaCO_3$
19	decomp.	$2Ag_2O \rightarrow$	$4Ag + O_2$
20	dbl. rep.	$2AgC_2H_3O_2 + K_2CrO_4 \rightarrow$	$Ag_2CrO_4 + 2KC_2H_3O_2$