	$B(OH)_2 + 4HF$	<=====>
	$H_3BO_3 + C_5H_5OH$	
	$H_3BO_3 + Na_2CO_3$	>
	$BF_3 + NH_3$	>
	$2BF_3 + 6NaH$	>
	$BF_3 + H_2O$	>
	$BF_3 + LiAlH_4$	<u>ether</u> >
	BF_3	
	$BF_3 + NHMe_2$	>
	$4BF_3 + 3H_3O$	>
	$8BF_3 + 6LiH$	>
	$2BCl_3 + 2Hg$	electric discharge >
	$2BCl_3 + 6H_2$	electric discharge_
	$BCl_3 + H_2O$	>
	$GaCl_3 + Ga$	>
	In + 2HCl(g)	>
	2GaCl ₂	
	2InCl ₂	>
	$2NaBH_4 + I_2$	<u>diglyme</u> >
	$2NaBH_4 + H_2SO_4$	>
	$NaBH_4 + 4[Et_2OBF_3]$	>
	6NaBH ₄ + 2 H ₃ PO ₄	>
	$Mg_3B_2 + H_3PO_4$	——> Mixture of Boranes — [△]
	$B_2H_6 + O_2$	>
	$B_2H_6 + H_2O$	>
	$B_2H_6 + ROH$	>
	B_2H_6	Red hot >
	$B_2H_6 + HCl$	>
	$B_2H_6 + 6Cl_2$	>
	$B_2H_6 + 4MeCl$	>
	B_2H_6	<u>Na / Hg</u> >
	$B_2H_6 + 6Cl_2$ (excess)	>
	$B_2H_6 + 2NH_3$	>
- 1		

$2N(CH_3)_3 + B_2H_6$	
$2PMe_3 + B_2H_6$	
$2SEt_2 + B_2H_6$	
2CO+ B ₂ H ₆	470atm 20bar >
THF / Me_2O / $Et_2O + B_2O_3$	>
$B_2H_6 + 2NH_3^{\text{(excess)}}$	Low temp>
$B_2H_6 + 2NH_3^{\text{(excess)}}$	High temp>
$B_2H_6 + 2NH_3 -$	NH3: B2H6:: 2:1 High temp >
$B + N_2$	<u> </u>
$B + NH_3$	>
$B_2H_6 + NH_3$ (excess)	High temp>
BF ₃	
BCl ₃ + NH ₄ Cl	>
	< <u>Me Mg BrNaBH4</u> >
$B_3N_3H_6 + 9H_2O$	
Al ₂ O ₃ (impure) leaching	
Al + air	——> + ——————————>
Al + H2SO4	>
Al + Mn2O3	>
Al + MnO ₂	<u> </u>
Al + Cr2O3	
Al + HCl	
Al + HNO ₃ (conc.)	
Al + NaOH	>
Al ₂ (SO ₄) ₃	>
2Al(OH) ₃	>
$(NH_4)_2SO_4\cdot Al_2(SO_4)_3\cdot 24H_2O$	>
$Al_2O_3 + HCl$	>
$Al_2O_3 + NaOH$	
LiH + AlCl ₃	
LiAlH ₄ + H ₂ SO ₄	>
$AlH_3 + H_2O$	>
B + NaOH	>
Al2O3 + 3C + 3Cl2	>

Al ₂ O ₃ + HCl	>
8Al ₂ O ₃	
Al(OH) ₃ + HCl	>
AlCl ₃ ·6H ₂ O	
AlCl ₃ ·H ₂ O	>
$[Al(H_2O)_6]^{3+}$	>
AlCl3 + 6NH3	>
AlCl ₃ + NaOH>	NaOH(excess)>
AlCl ₃ + NH ₄ OH ——>	<u>NH4OH(excess)</u>
$Zn^{2+} + NH_4OH$ >	NH4OH(excess)>
LiH + AlCl ₃	>
Al + B2O3	>
$Mg + B_2O_3$	>
$Na_2B_4O_7 + HCl / Na_2SO_4$	>
$Na_2B_4O_7 + H_2O$	>
$H_2B_4O_7 + 5H_2O$	>
$H_2B_4O_7 + H_2O$	>
H_3BO_3	>
$B_2O_3 + Na / K / Mg / Al$	>
$B_2O_3 + H_2O$	>
$B_2O_3 + Na_2O$	>
$B_2O_3 + P_2O_5$	>
$B_2O_3 + As_2O_5$	
$B_2O_3 + Cr_2(SO_4)_3$	
$B_2O_3 + Cu(NO_3)_2$	>
$B_2O_3 + CaF_2 + H_2SO_4$ (conc.)	
$B_2O_3 + 3H_2 + 2Al$	
$B_2O_3 + HF + H_2SO_4$	>
$B_2O_3 + HF$	>
BI_3	Red hot tungsten tantalum
B_2H_6	>
KBF ₄ + K	>
2E + 3/2 O ₂	>
2Al + 3/2 O ₂	>

$E + N_2$	
$E + X_2$	 >
$B + H_2SO_4$	
$B + HNO_3$	
Mg + B	
Ca + B	
B + SiO ₂	
$B + CO_2$	
$Ca_2B_6O_{11} \cdot 5H_2O + 2Na_2CO_3$	
Filter the above product	>
Crytaliasation of Na ₂ B ₄ O ₇ + NaBO ₂	>
Filter the above product	>
NaBO ₂	<u>CO2</u> >
$NaOH + H_3BO_3$	<======>
Glassy Bead	>
	<u>CaO</u> >
$[B(OH)_4]^- + H_3O^+$	>
$B(OH)_3 + H_2O$	>
$Na[B(OH)_4] + H_3O^+$	<======>
Borax + HCl	>
$Ca_2B_6O_6 + 2Na_2CO_3$	· ——>
$Na_2B_4O_7$ \longrightarrow	·>
$Na_2B_4O_7 + NaBO_2$	>
$Na_2B_4O_7 + H_2SO_4$	>
$Na_2B_4O_7 \cdot 10H_2O$	Δ Swells \rightarrow
$Na_2B_4O_7$	>
$Na_2B_4O_7$	<u>Crystalize</u>
HBO ₂	>
$BX_3 + 3H_2O$	>
$BH_3 + 3H_2O$	>
$M^{n+} + 6NH_3$	>
$CaF_2 + H_2SO_4$ (conc.)	>
H ₃ BO ₃ + MeOH(or)EtOH	>
M — <u>NaOH</u> >	$M(OH)_2$ — NaOH(excess) \longrightarrow