Particle Model

1. Represent the following with symbols.

	Symbol		Symbol
3 O_3		2 H_2SO_4	
4 Cl		2 Na_2O	
2 $PbNO_3$		NH_3	
PCl_3		2 Na_2O_3	
2 Al_2S_3		3 N_2	

2. Represent each equation using the particle model.

a. C_3H_8 + 5 O_2 → 3 CO_2 + 4 H_2O

b. $TiCl_4$ + O_2 → TiO_2 + 2 Cl_2

c. $Ba(OH)_2$ + Na_2SO_4 → $BaSO_4$ + 2 NaOH

d. $Pb(NO_3)_2$ + 2 KI → PbI_2 + 2 KNO_3

e.   2 NH_3 + 3 Cl_2 → 6 HCl + N_2

f.   2 Al + 3 H_2SO_4 → $Al_2(SO_4)_3$ + 3 H_2