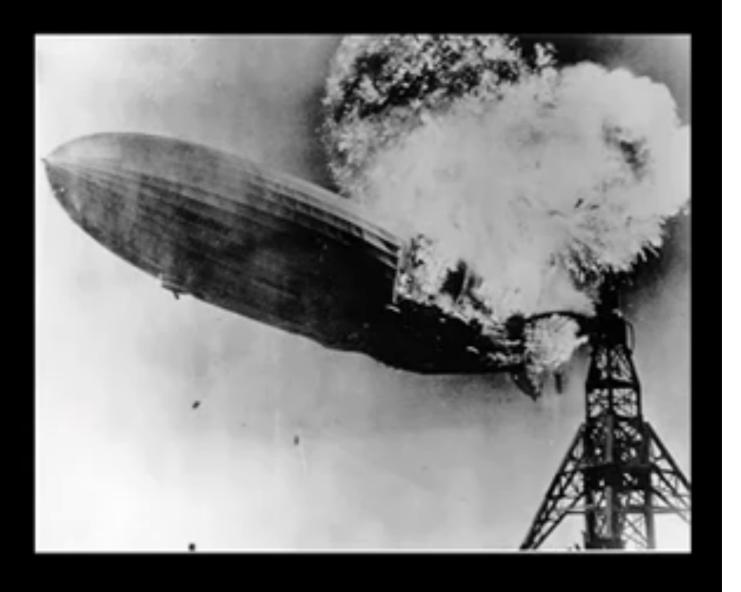
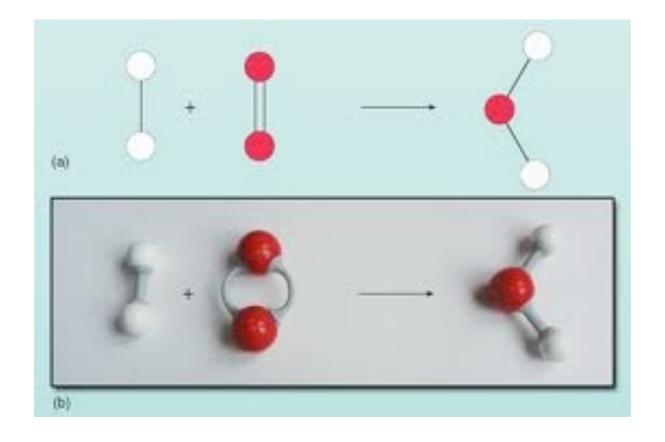
## Stoichiometry--balancing equations

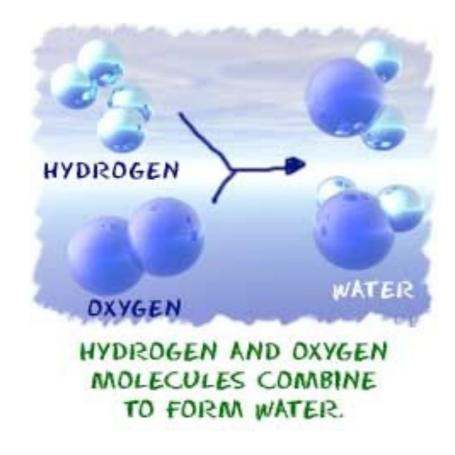
Stoichiometry-->derived from the Greek "stoicheion" (element) and "metron" (to measure)

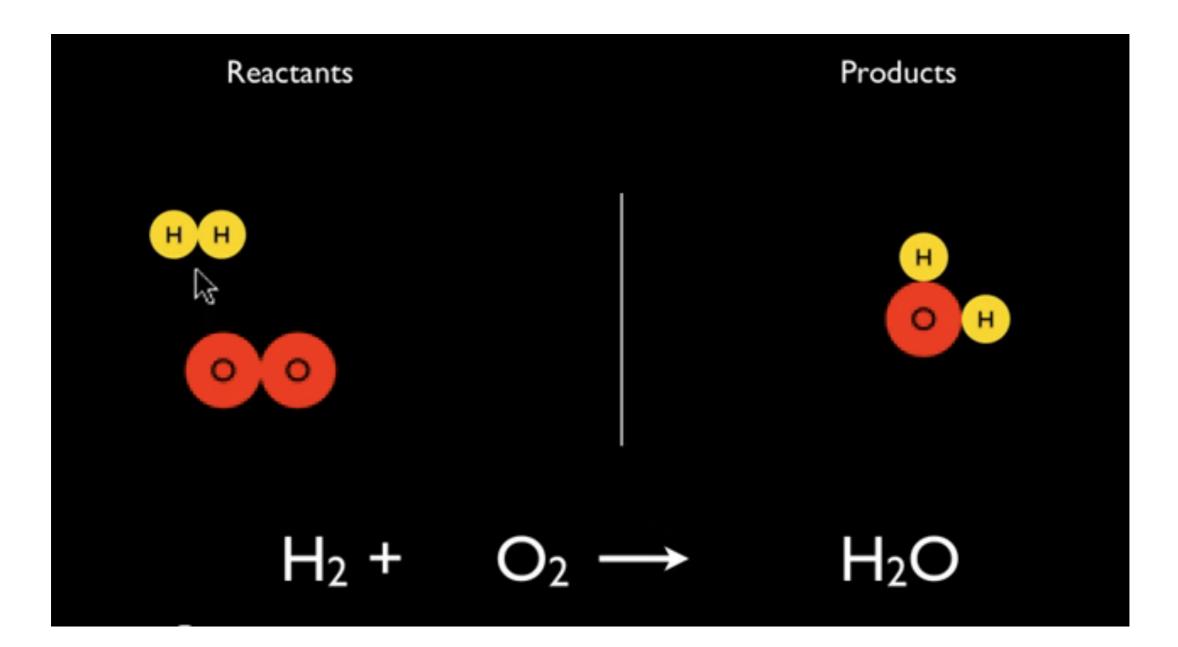


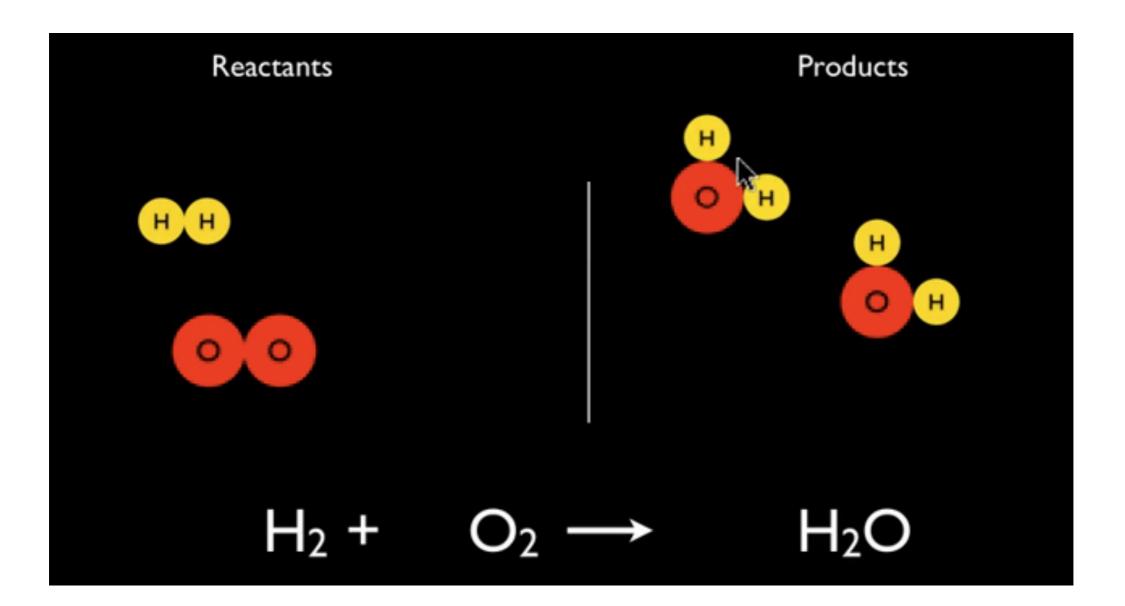
## Hydrogen Combustion

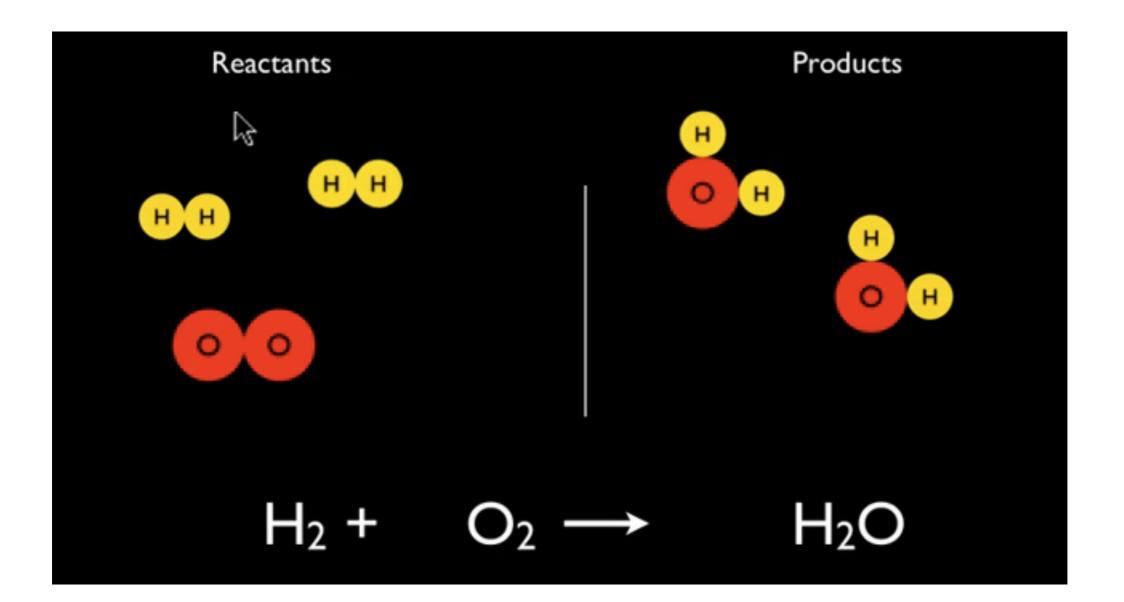


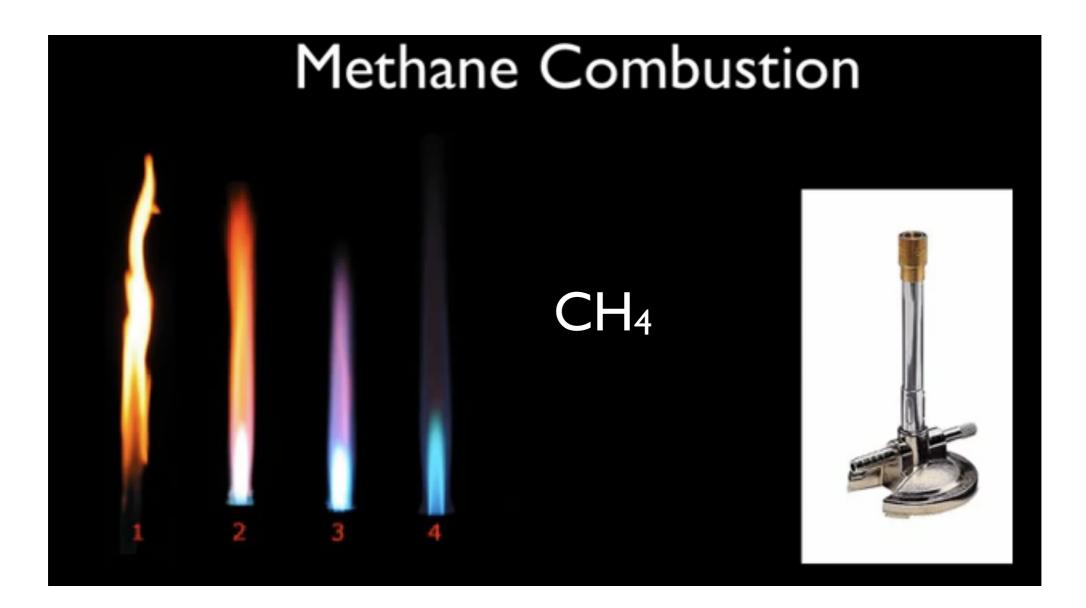


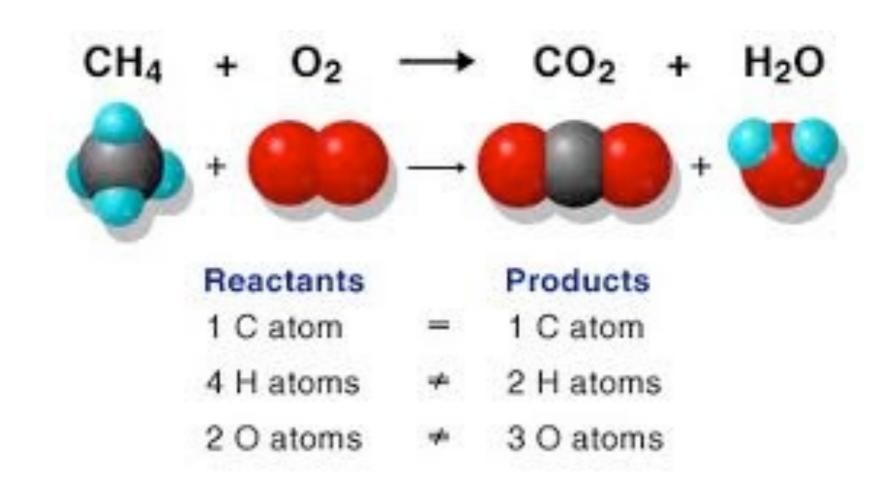


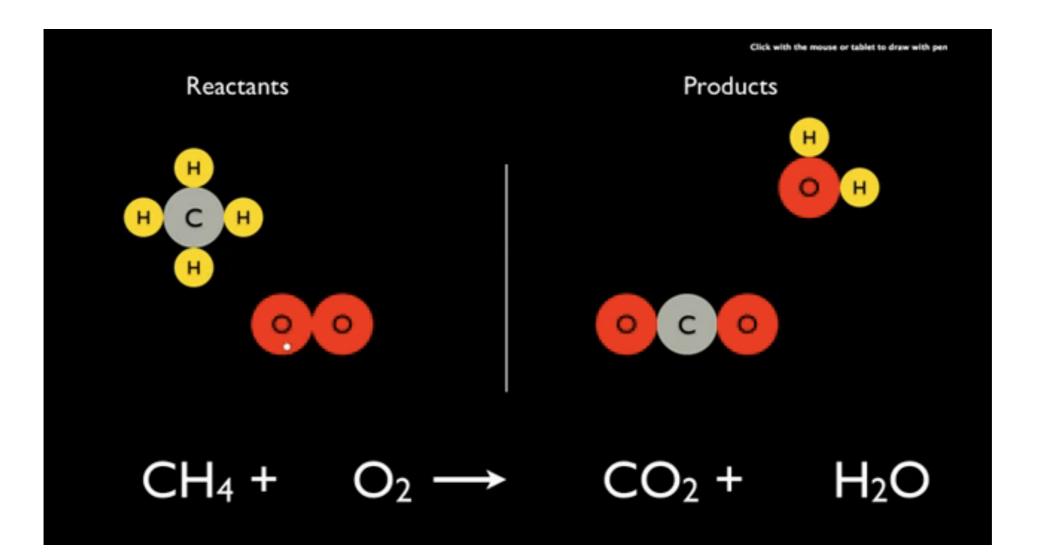


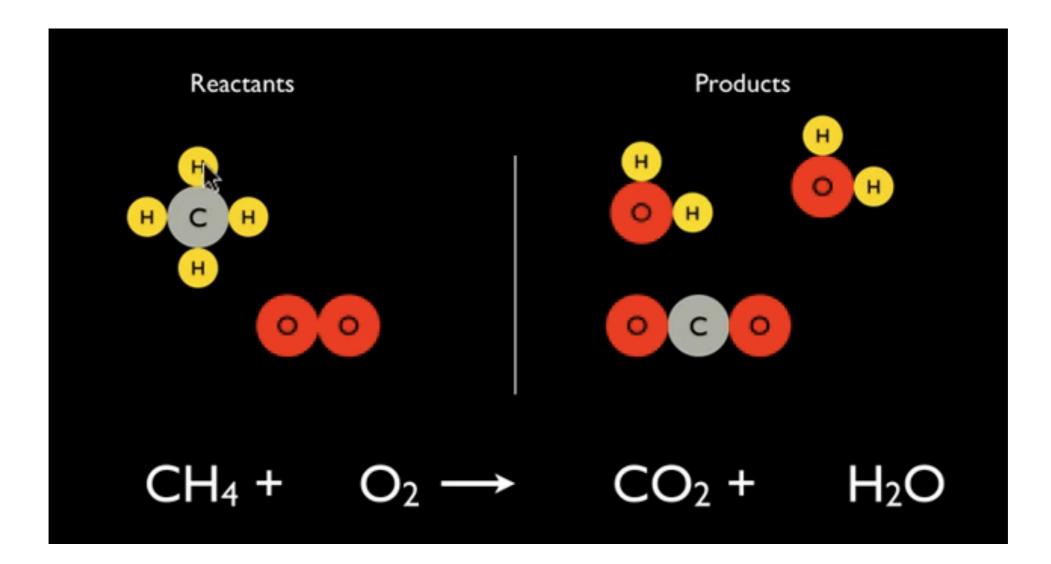


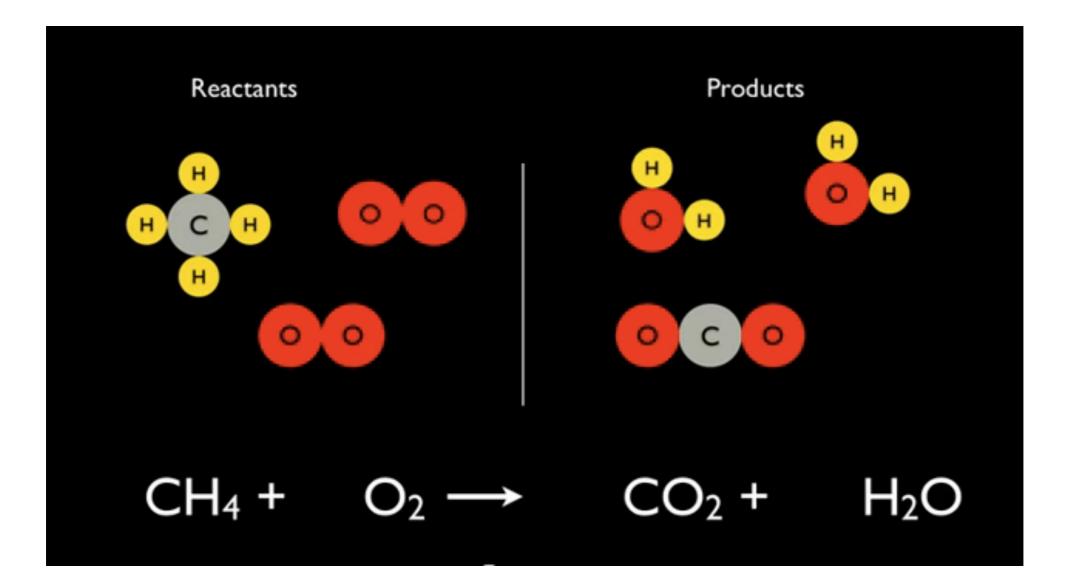


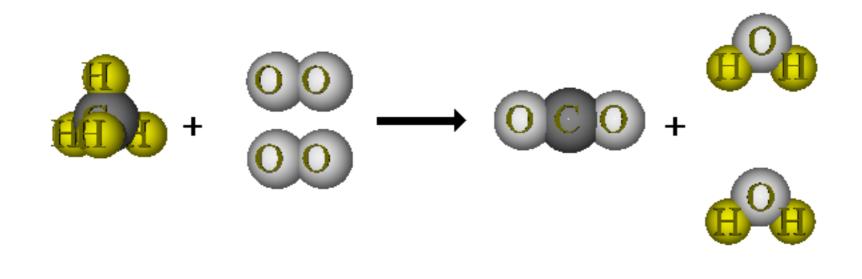






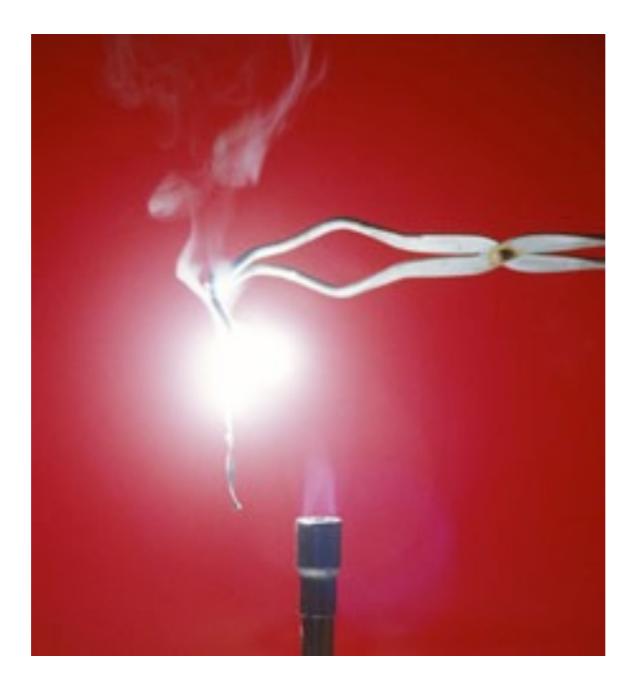




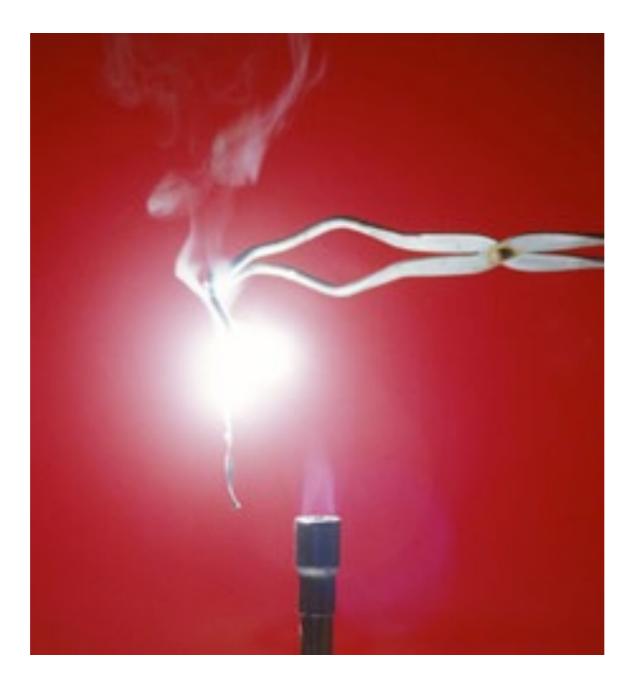


## $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$

 $N_{2} + H_{2} \rightarrow NH_{3}$  $N_{2} + H_{2} \rightarrow 2(NH_{3})$  $N_{2} + 3(H_{2}) \rightarrow 2(NH_{3})$ 



Mg + O<sub>2</sub> --> MgO



 $Mg + O_2 --> MgO$  $2Mg + O_2 --> 2MgO$