







Keep it straight OIL RIG Oxidation Is Loss Reduction Is Gain LEO says GER Lose Electrons Oxidation Gain Electrons Reduction JREMIT GROL Just REMember IT Gain Reduction Oxidation Loss



Easy in ions "Book keeping" in molecules

for molecules oxidation numbers are a convention in which we imagine what the charge would be if it broke up into pieces (we can't really assign electrons to different elements)

Principles of Chemistry II

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One reaction for reduction  

$$O = 0 = 0 = 0$$
  
 $H_2O_2 \rightarrow H_2O$   
 $H_2O_2 \rightarrow 2H_2O$  add  $H_2O$  to balance O  
 $2H^+ + H_2O_2 \rightarrow 2H_2O$  add  $H^+$  to balance H  
 $2e^- + 2H^+ + H_2O_2 \rightarrow 2H_2O$  add e to balance charge

 $2l^{2} \longrightarrow l_{2} + 2e^{2} + l_{2} + l_{2} \longrightarrow 2H_{2}O_{2} \longrightarrow 2H_{2}O_{2}$  $2l^{2} + 2H^{2} + H_{2}O_{2} \longrightarrow 2H_{2}O + l_{2}$ 

