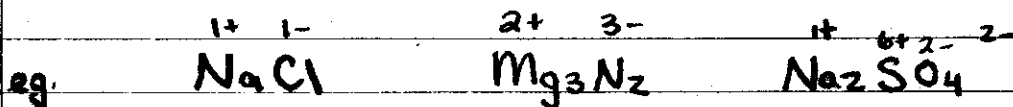
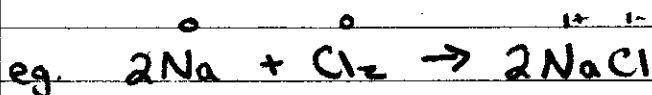


## Redox Mini Unit

Many reactions involves a loss and/or gain of electrons. This can be determined by oxidation states (similar to and includes charge).



In a chemical reaction, electrons are frequently exchanged or transferred.



• each sodium has lost a electron  
• each chlorine has gained a electron

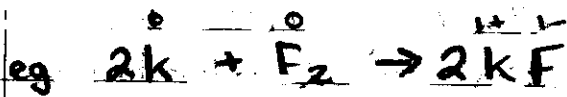
L E O	the lion says	G I E R
o l x		a l e
s e i		i e d
e c d		n c u
t i		t c
r z		r e
o e		o
n		n
s		s

Oxidation: loss of electrons (increase in oxidation state).

Reduction: gains of electrons (decrease in oxidation state).

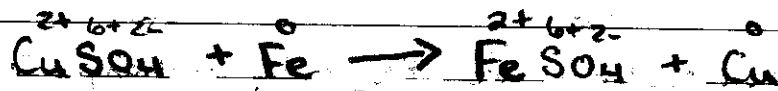
ReDOX is short for Reduction/Oxidation

Write all oxidation states and then determine which element is oxidized and which is reduced



$\therefore$  K lost  $\rightarrow$  oxidized

F gains  $\rightarrow$  reduced



$\therefore$  Fe LEO

Cu GER