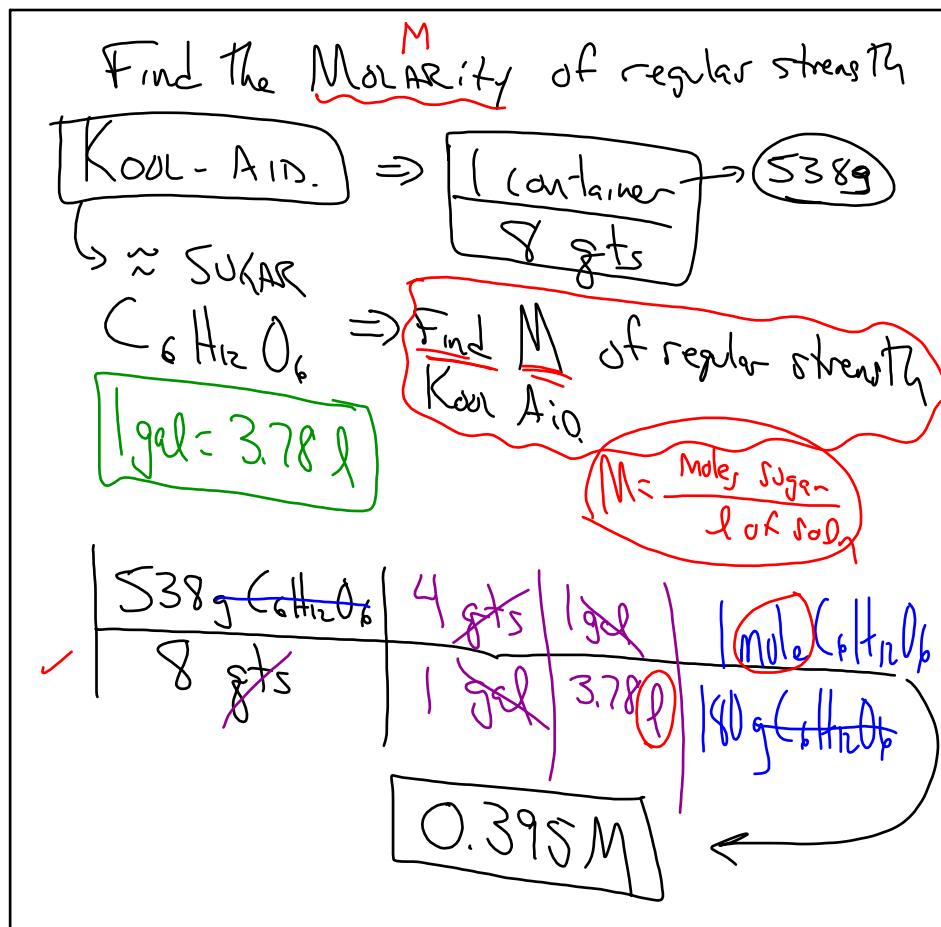
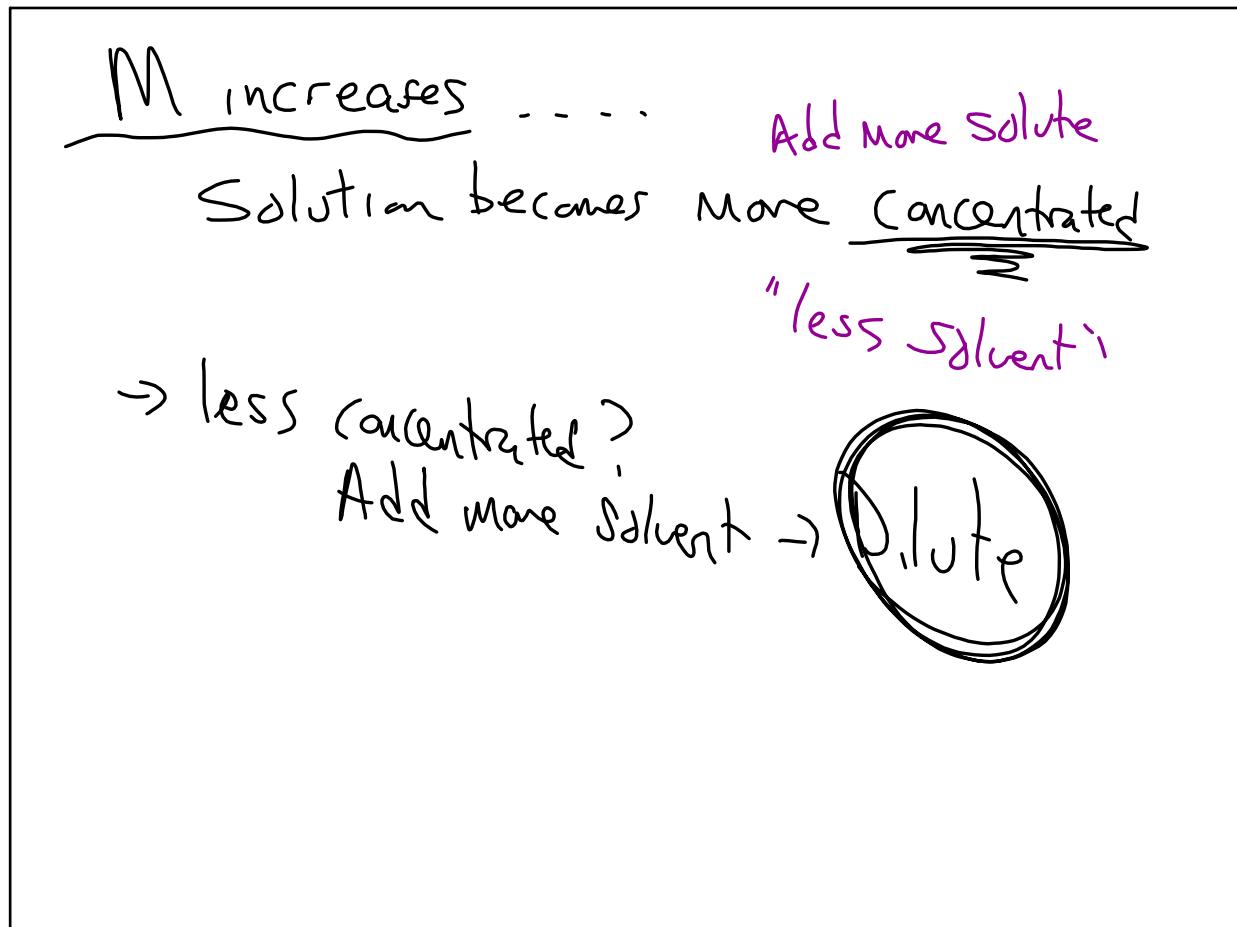


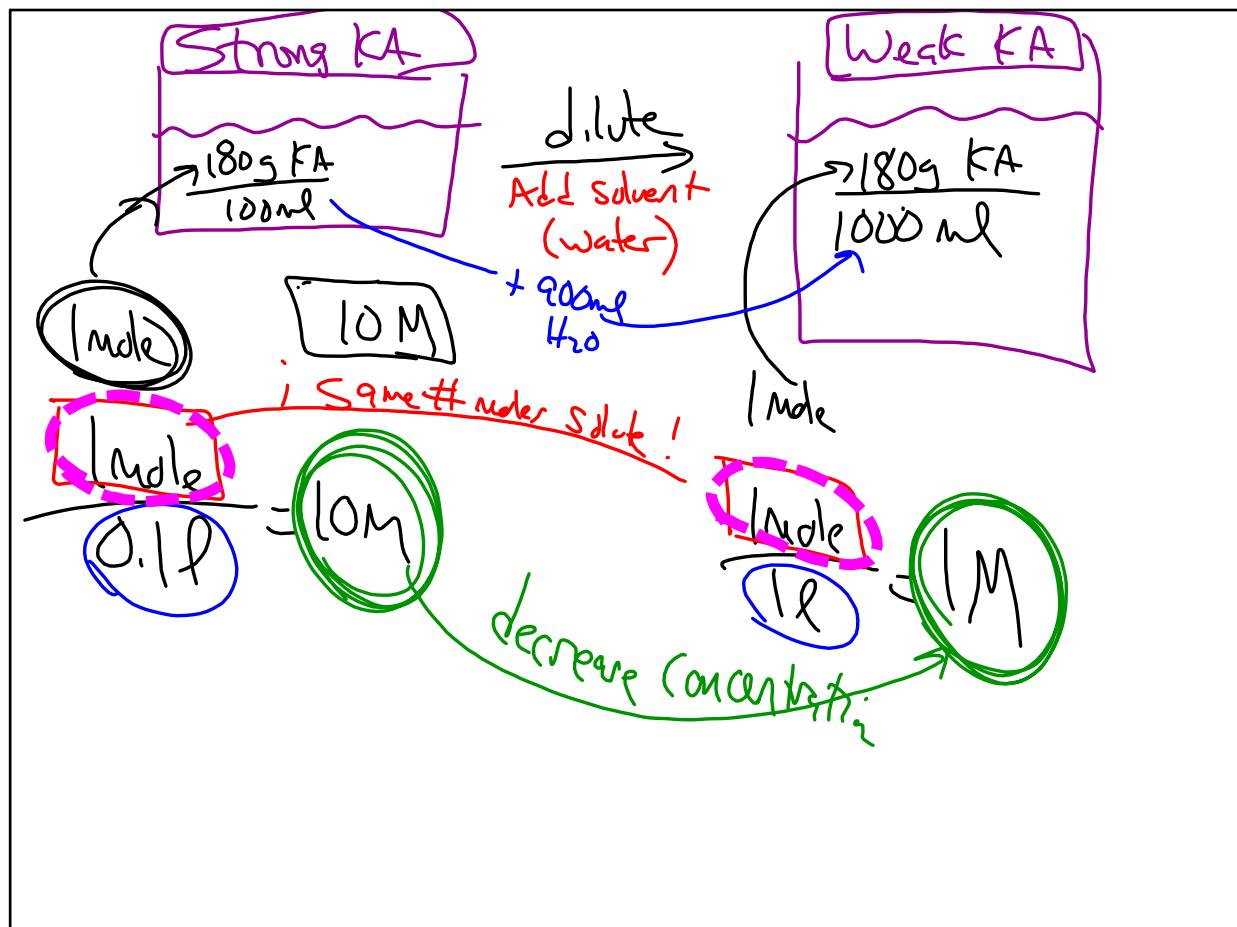
Oct 7-7:26 AM



Oct 7-8:24 AM



Oct 7-8:42 AM



Oct 7-8:44 AM

Calculate Dilutions

~~$\frac{M}{l} = \text{moles}$~~

Moles Start = Moles END

$M_{\text{start}} \times l_{\text{start}} = M_{\text{end}} \times l_{\text{end}}$

$(12)(\text{me}) = (5)(100)$

$41.67 \text{ ml } 12M \text{ HCl}$

$12M \text{ HCl}$
Make 100ml 5M HCl

Oct 7-8:54 AM

① 41.67 ml 12M HCl

② dilutes instantly

TOTAL 100ml

Do What You "Oughta"
Add the acid to the Water

- ① Add $\text{H}_2\text{O} \rightarrow$ little bit
 $\approx 40 \rightarrow$ 50ml
- ② Adding 41.67 ml 12M HCl
- ③ Fill to 100ml 1, up with H_2O

Oct 7-9:01 AM

How many ml of 5M $K_2Cr_2O_7$
must be diluted to prepare 250ml of
0.1M soln.

Moles start = Mole end.

$$\frac{M \times l}{(5) \text{ ml}} = \frac{M \times l}{(0.1) \text{ (250 ml)}} \\ \text{SMP}$$

Oct 7-9:06 AM

Electrolytes \rightarrow Soluble ion

Table 4.2
P125
Solubility table.

Cation (\oplus)

Anions (\ominus)

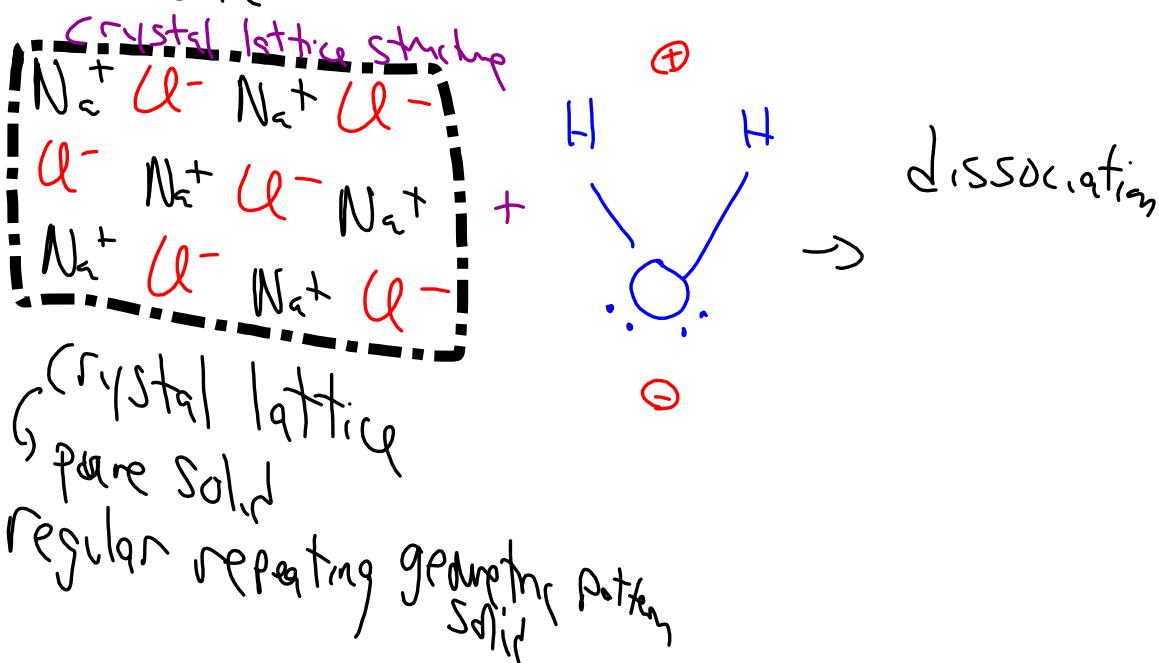
Oct 7-9:14 AM

Salt + water \rightarrow saltwater.

NaCl
ionic solid

H_2O

$\text{NaCl}(\text{aq})$



Oct 7-9:18 AM

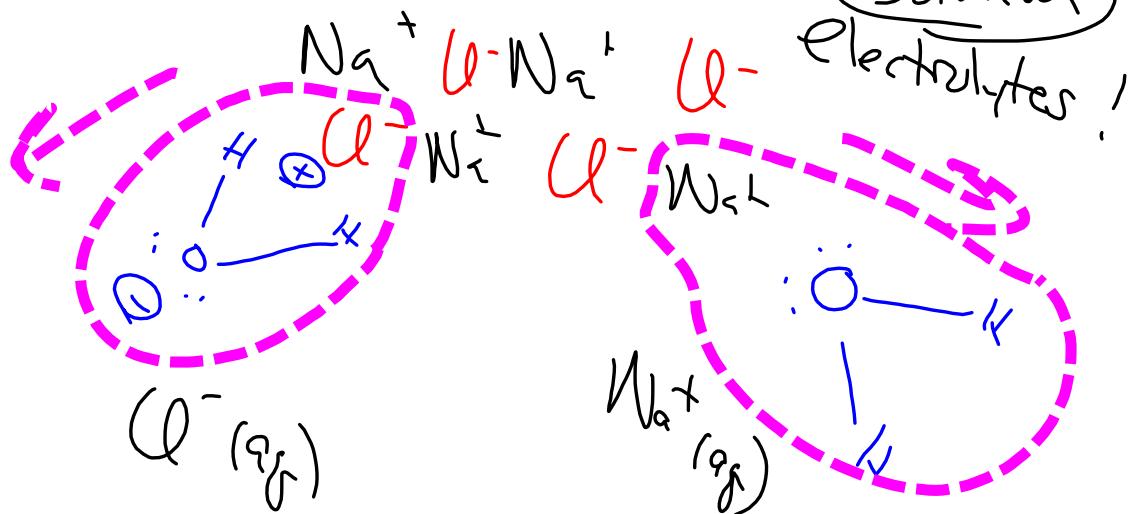
Solvation

Salt "dissolves"

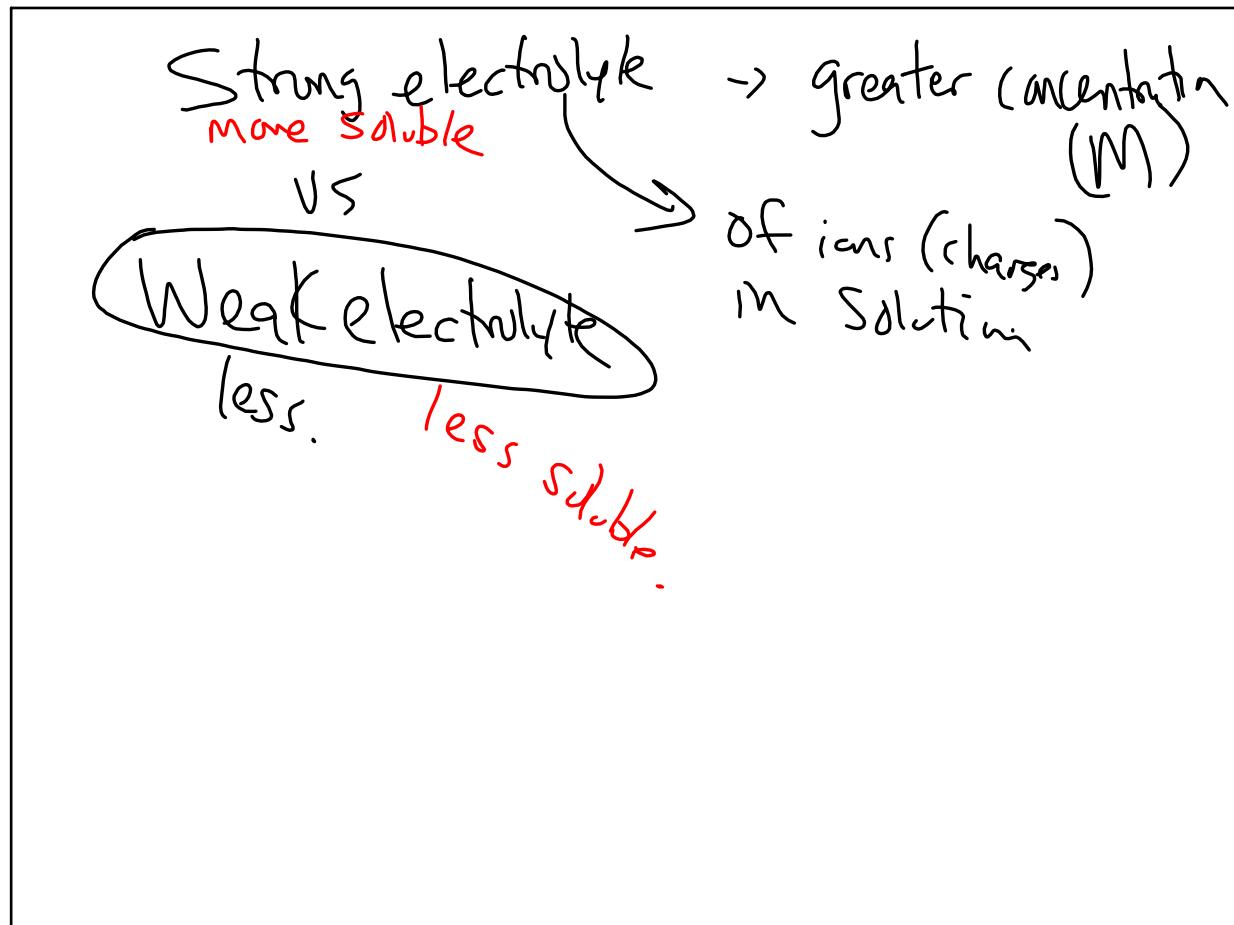
in water \rightarrow ionic

solution

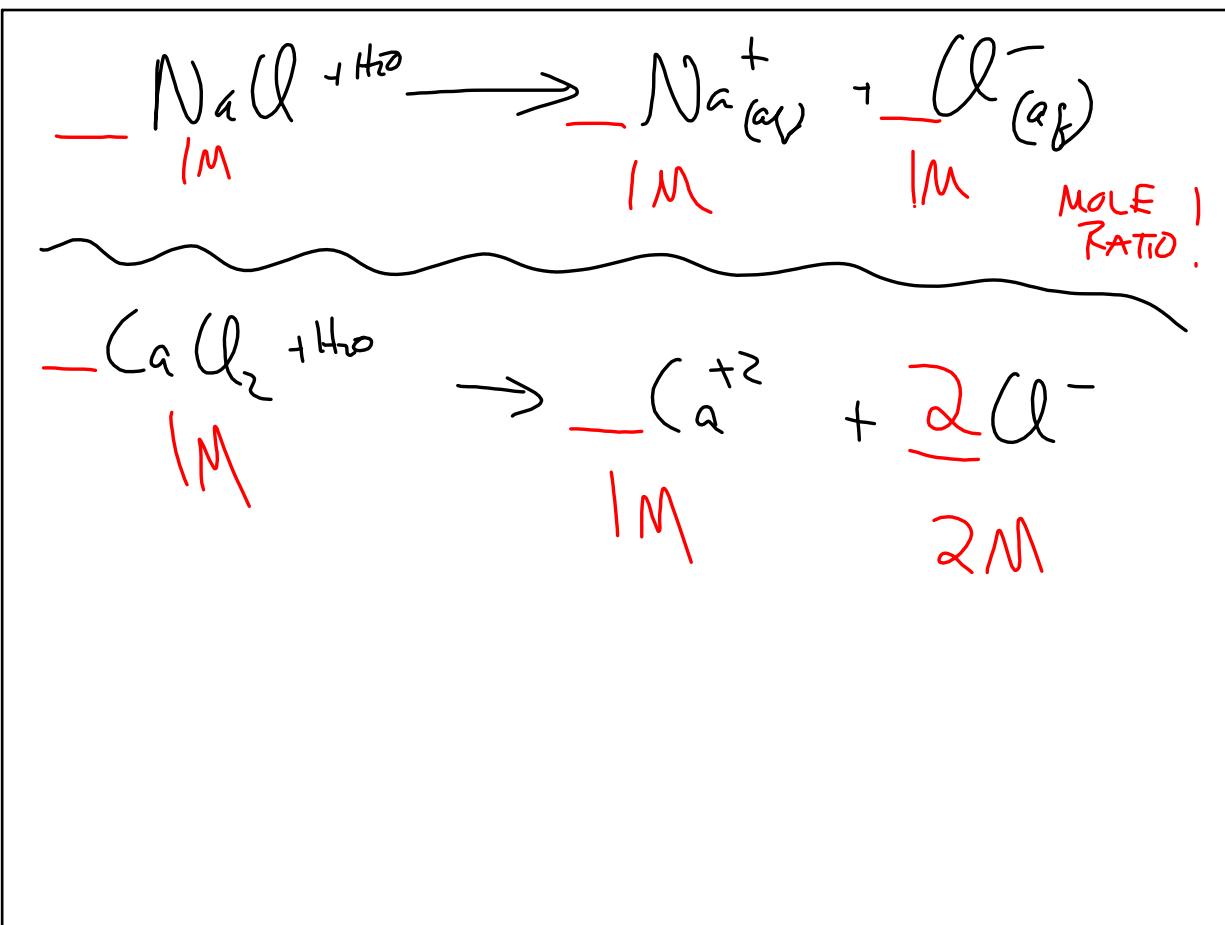
Electrolytes!



Oct 7-9:21 AM



Oct 7-9:25 AM



Oct 7-9:27 AM

A red circle containing the letters "HW".

4.74

Oct 7-9:30 AM