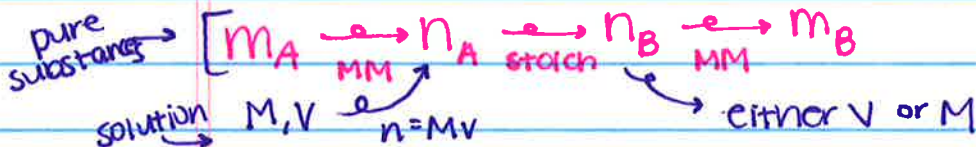
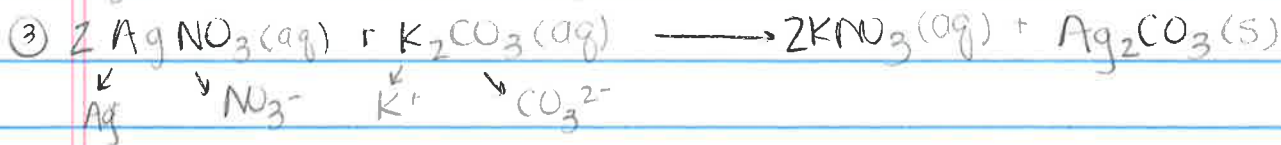
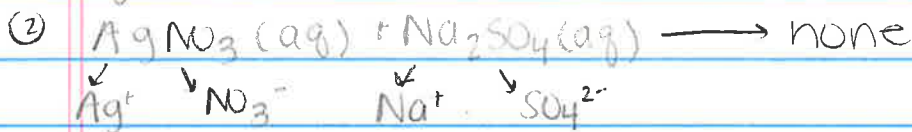
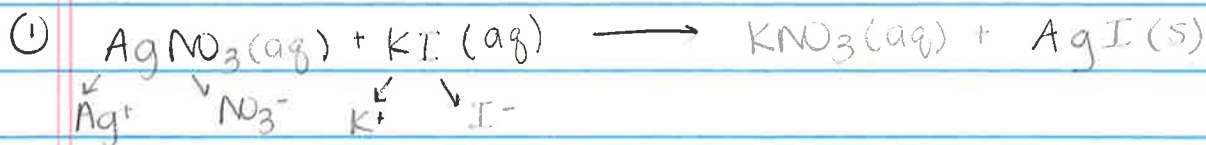


Today: review

Thursday: office hours all day (except 11:15-12:30)  
 Problem club w/ Kendall

\* Friday: CK 2 Doors open @ 9:15 \*

will a precipitate form? If so, write the rxn. September 25<sup>th</sup>

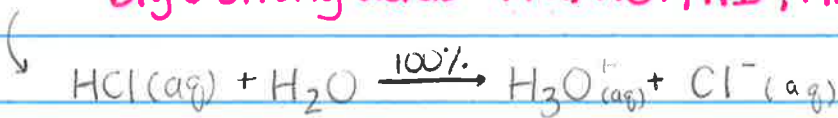


strong electrolytes (forms ions 100%)

- \* soluble ionic salt
- \* strong acid

$\rightarrow$  hydrochloric acid  
 $\rightarrow$  hydrobromic acid  
 $\rightarrow$  hydroiodic acid

$\hookrightarrow$  Big 6 strong acids: HCl, HBr, HI, HNO<sub>3</sub>, HClO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>

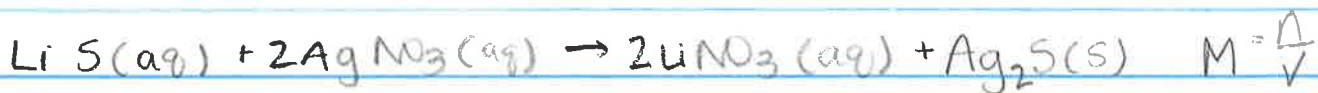


non-electrolytes (no ions formed)

- \* covalent moleculars
- \* insoluble ionics

$M = \frac{n}{V}$   
 molarity mol/L  $\leftarrow$  moles  
 volume of soln in L  $\leftarrow$

$n = MV$



25.00 mL  
 of 0.315 mol/L

$n = MV$

$\hookrightarrow n = 0.315 \text{ mol/L} \cdot 0.025 \text{ L}$

$\hookrightarrow n = 0.007875 \text{ mol}$

$n_{Li_2S} =$

$\frac{0.007875 \text{ mol} \cdot 1 \text{ mol } Li_2S}{2 \text{ mol } AgNO_3}$

$V = \frac{n}{M} \rightarrow \frac{0.003938 \text{ mol } Li_2S}{0.300 \text{ mol/L}} = 0.01313 \text{ L}$   
 $\rightarrow 13.13 \text{ mL}$

GO MOLES!

#8 on ch. 4 day 1:

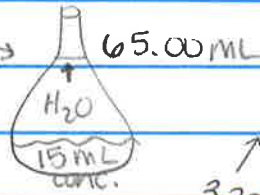
September 25<sup>th</sup>

↳ 20.0g NaOH dissolved in water to make 150 mL sol'n.



$$M = \frac{n_{\text{NaOH}}}{V_{\text{sol'n}}} = \frac{20.0\text{g NaOH}}{40.00\text{g}} \frac{\text{mol NaOH}}{\text{mol}} \frac{1}{0.150\text{L}} =$$

$$M_{\text{conc}} = 3.33 \text{ mol/L}$$



$$M_c V_c = M_d V_d$$

↑                      ↓                      ↑                      ↓  
3.33 mol/L    15 mL                      ?                      50 mL