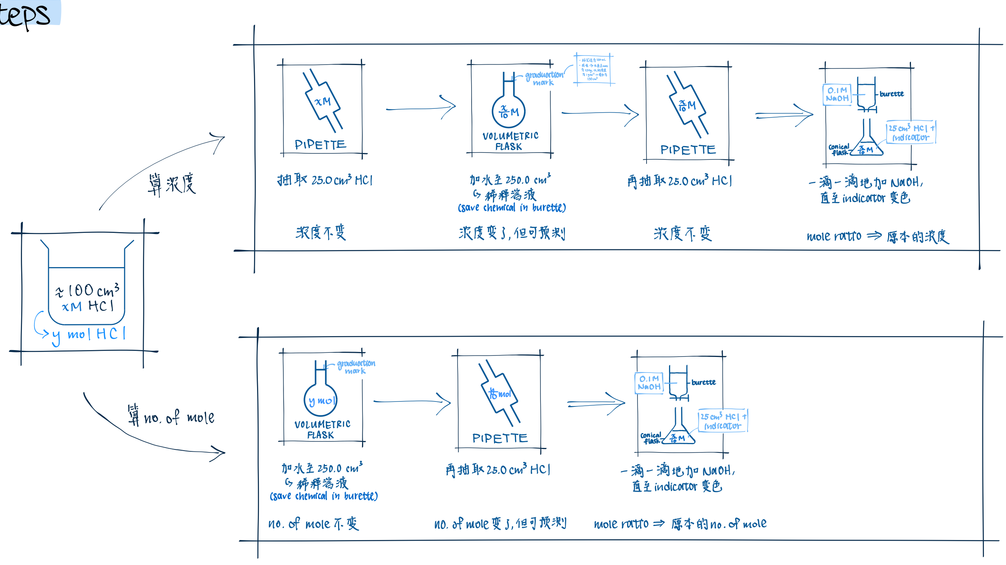
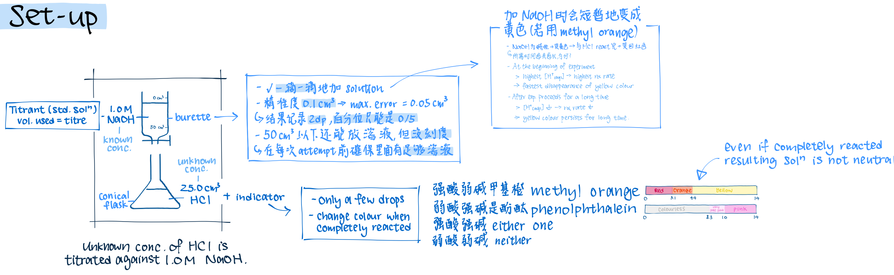
Titration (experiment)

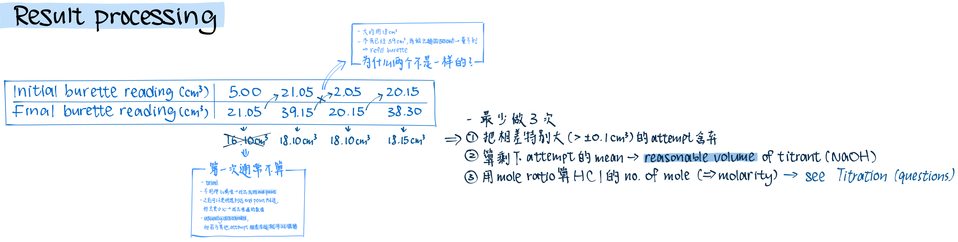
1 Steps



2 Set-up



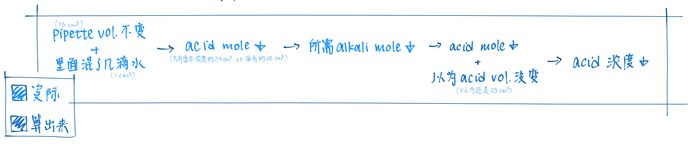
3 Result processing



4 Precautions

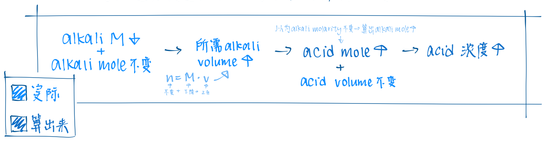
PREPARING PIPETTE

- rinse by distilled water for several times, followed by the solution
- 只用水洗 → 导致还有水遗在 pipette 里，抽溶液的时候会稀释溶液



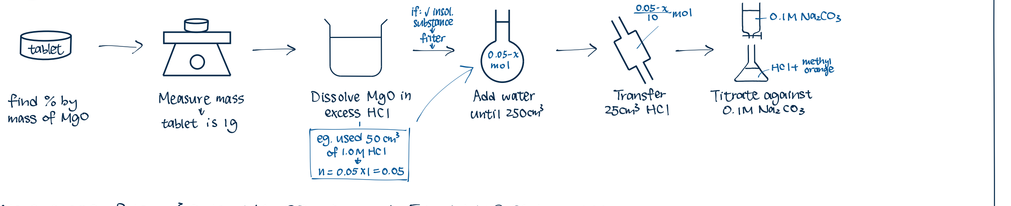
PREPARING BURETTE

- rinse by distilled water for several times, followed by the solution (alkali)
- open the knob to allow sol. to fill up burette w/ no bubbles trapped inside
- 只用水洗 → 导致还有水遗在 burette 里，会稀释溶液

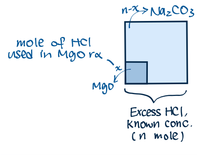


5 Back titration

STEPS



An average of 10 cm³ 0.1M Na_2CO_3 is used. Find MgO % by mass.



$HCl : Na_2CO_3 = \frac{0.05-x}{10} : 0.1 \times 0.01$

$2 : 1 = \frac{0.05-x}{10} : 0.1 \times 0.01$

$x = 0.03$ mol

$HCl : MgO = 0.03 : MgO$

$2 : 1 = 0.03 : MgO$

$MgO = 0.015$ mol

$= 0.6045$g

$\% \text{ mass} = \frac{0.6045}{1} \times 100\% = 60.5\%$