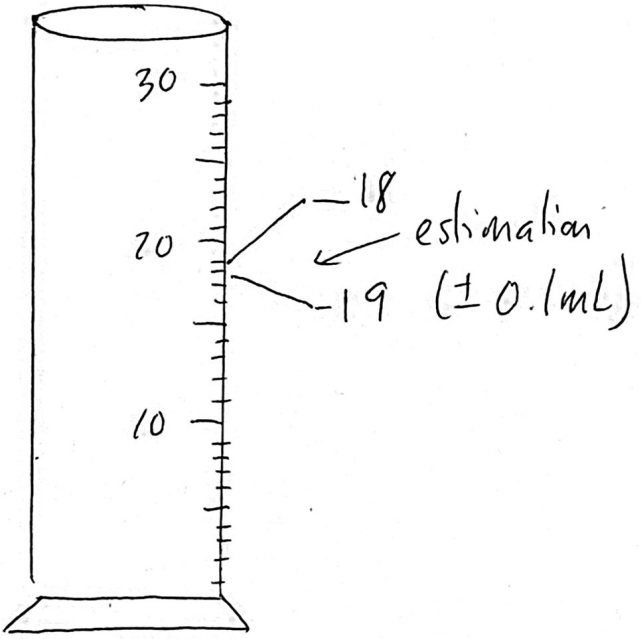
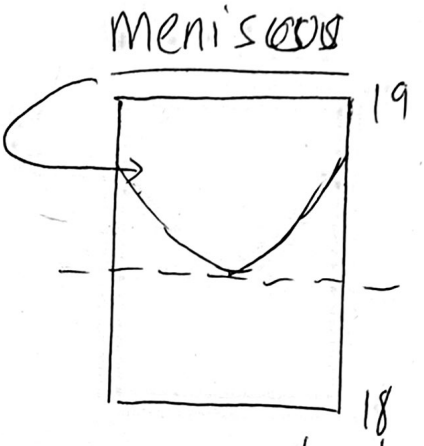
Lab: Colorful Liquids Post-Lab

Errors in Volume Measurements

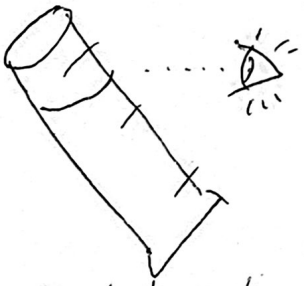
Normal Accuracy



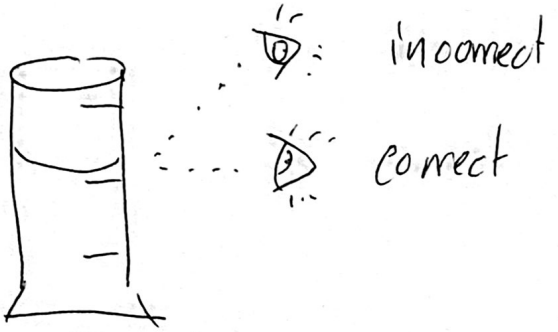


measure bottom of curve "meniscus"

Errors



Tilted cylinder
(Inc. or dec. measure.)



Paralax error
(not viewing at correct angle)

Errors Add to increase inaccuracy

① ±1mL ② ±1mL (total) ±2mL

Colors of Liquids

(A)	(B)	(C)	(D)	(E)	(F)
11 mL red	8 mL red 3 mL yellow	11 mL yellow	4 mL yellow 7 mL blue	11 mL blue	4 mL blue 7 mL red
red primary	dark orange secondary	yellow primary	green secondary	blue primary	light purple secondary

The levels of color are based on ratio of primary colors

(B) 8 mL red / 3 mL yellow = dark orange
3 mL red / 8 mL yellow = bright orange
] both 11 mL

(D) 4 mL yellow / 7 mL blue = dark green
7 mL yellow / 4 mL blue = light green
] both 11 mL

(F) 4 mL blue / 7 mL red = light purple
7 mL blue / 4 mL red = dark purple
] both 11 mL