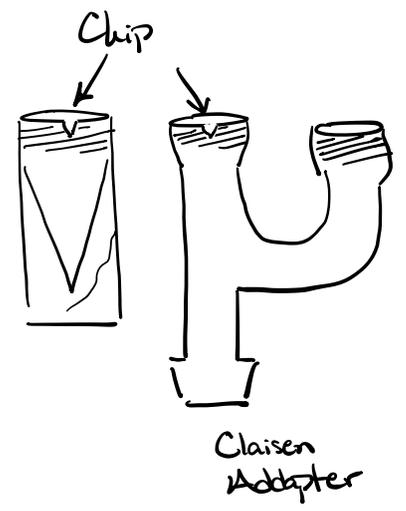
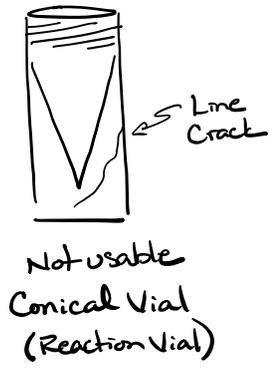
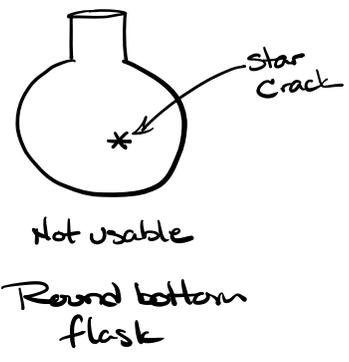


Agenda

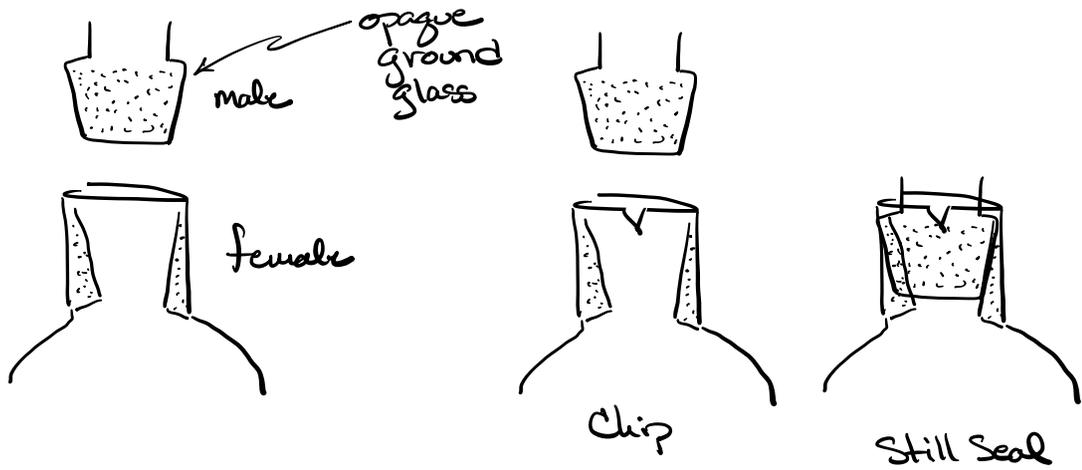
- ① Hand out Locker Combs
- ② Sign in to lockers
- ③ verify everything in Locker
 - Locker check in sheet
 - Look at all glassware



Usable
but good
to identify

Classware joints

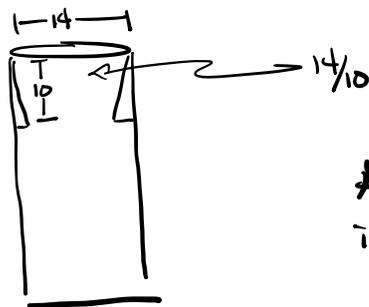
Ground glass joint $\$$



$\$$ = ST = Standard Taper

$\frac{14}{10}$ $\frac{14}{20}$ $\frac{19}{22}$ $\frac{24}{40}$ ← Diameter
← Depth
most Common

$\frac{14}{10}$ used on microscale 3mL - 25mL in Volume



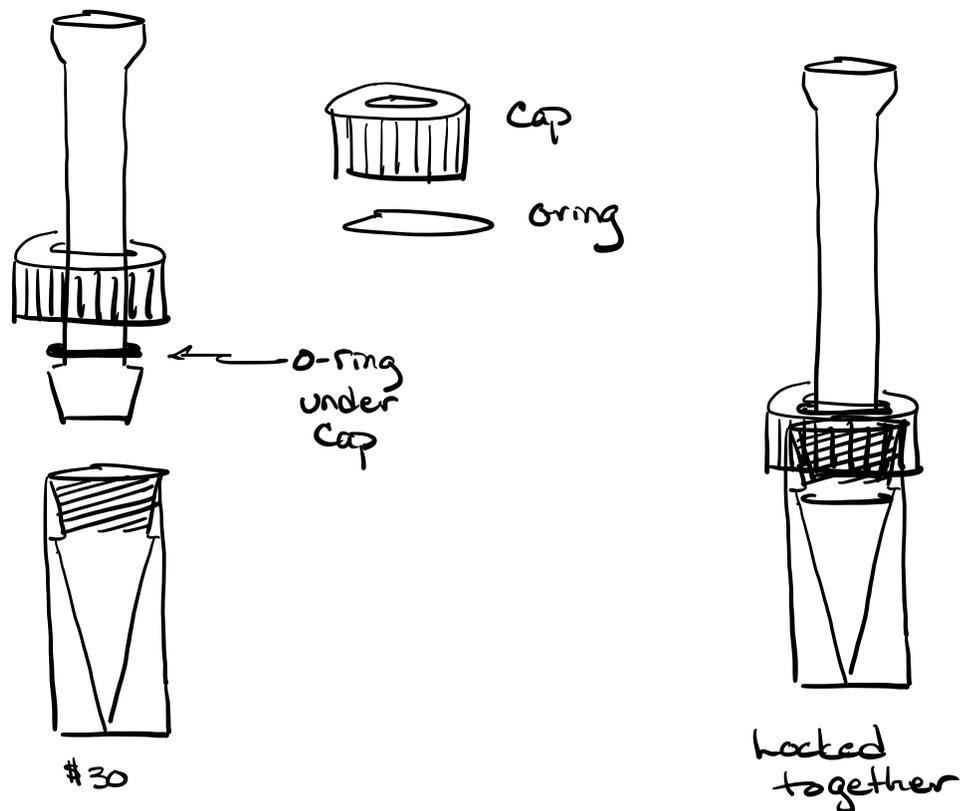
All of our glassware in lockers is $\frac{14}{10}$

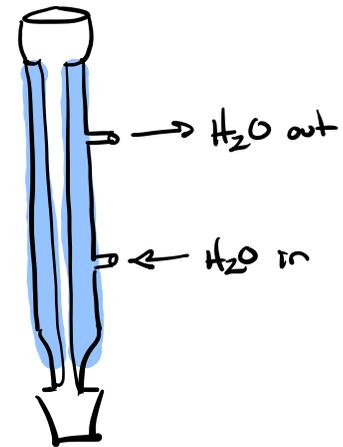
14/20 Common on 10 ml - 100 ml

19/22 most common for small lab prep
25 ml - 500 ml

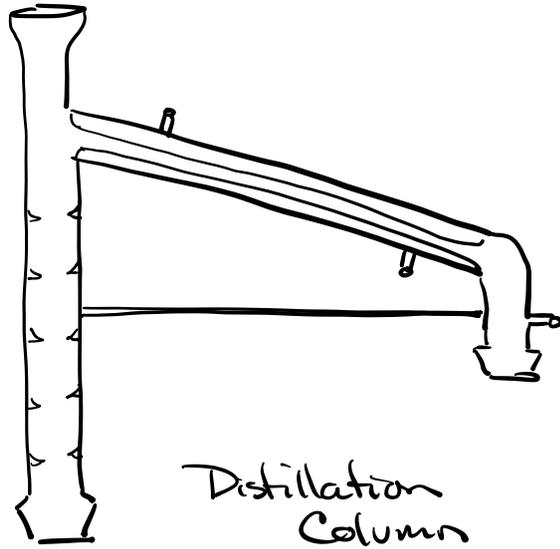
24/40 large prep
500 ml → 2 or 4 L

Clamping System for Microscale





Water jacketed
Condenser
#50-60

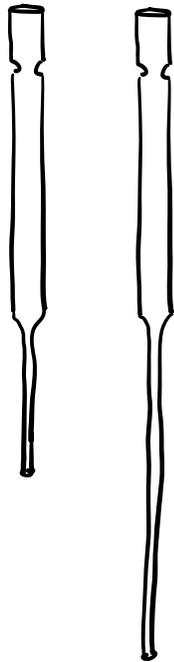


Distillation
Column
#700

-After locker Check in

Experiment 1 Calibration of Pasteur Pipets

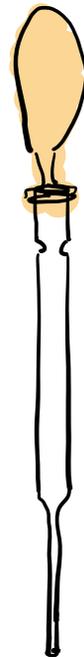
Disposable



Normal glass
Sharp!



pipet bulb

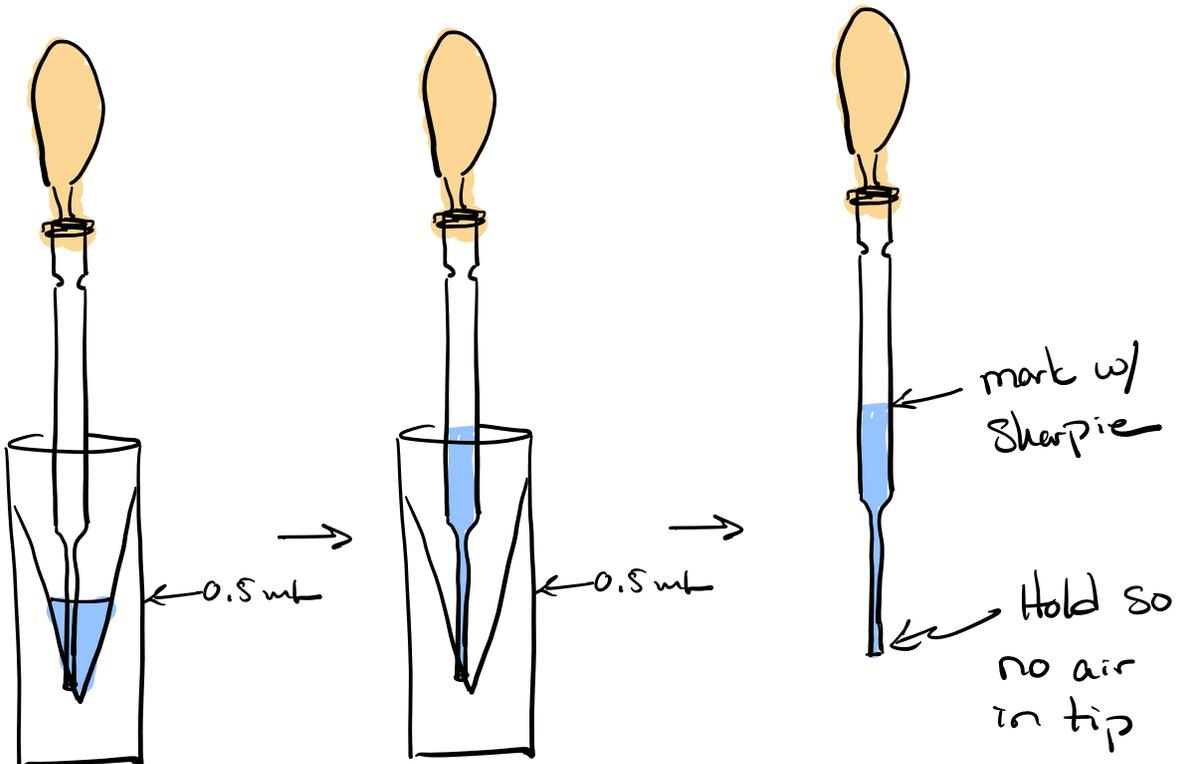


① Use conical vial 3 mL or 5 mL

- Tare vial

- add 0.5 g H_2O \rightarrow 0.5 mL $d_{H_2O}^{25^\circ C} = 0.998$

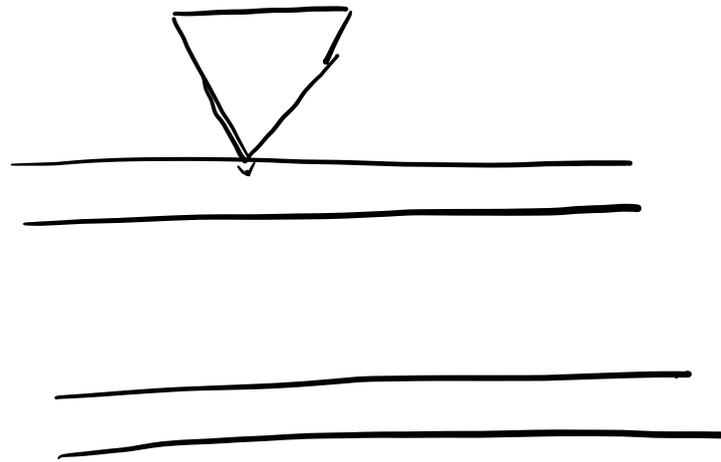
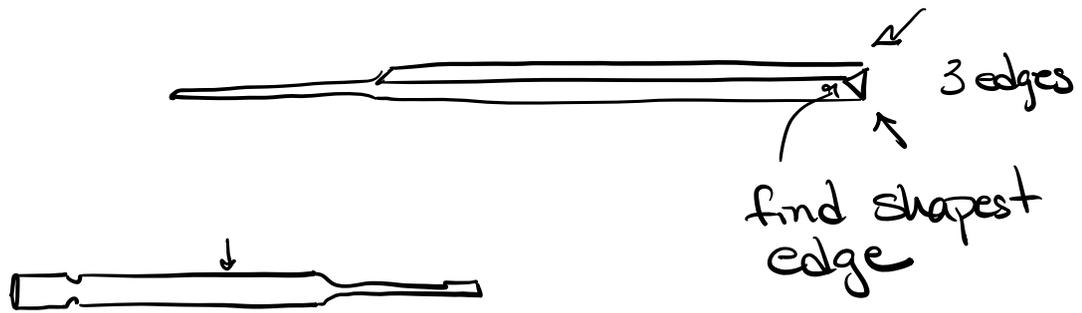
② pull that 0.5 mL into the pipet



③ Place mark

④ Expel water

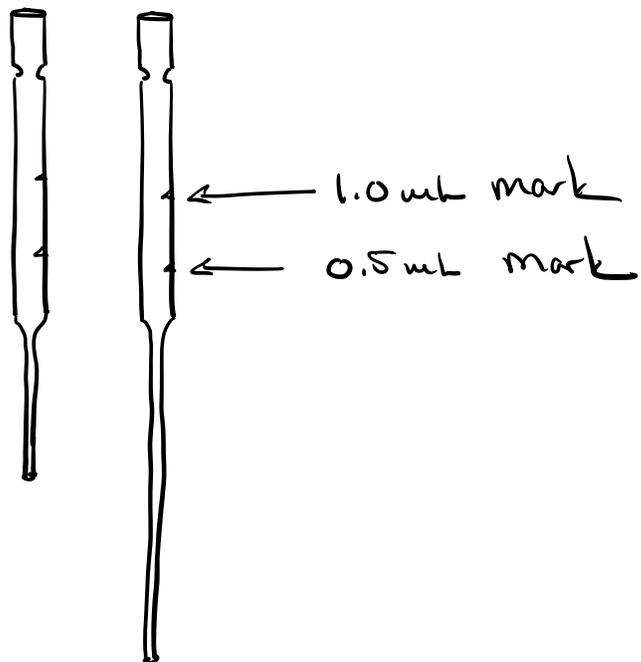
⑤ use glass file to make a notch in glass at mark



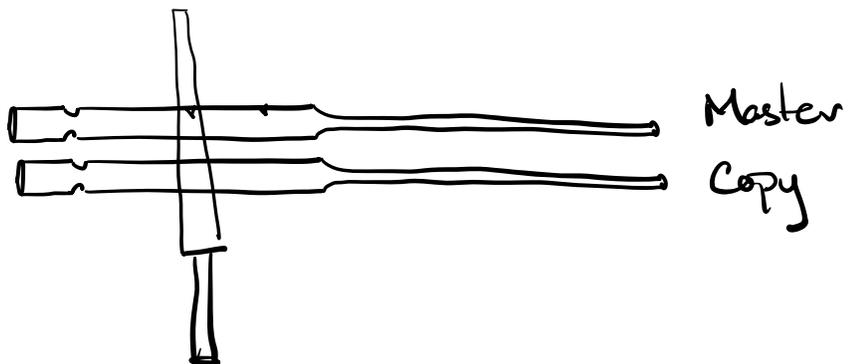
⑥ Repeat process w/ 1.0 g (1.0 mL)
& do for both long & short stem

⑦ End

Master Copies



Transfer Mark



⑧ Make 5 copies of each

Should have for Wednesday

- ⇒ ① Lab notebook
- ② Experiment in Paria → Leave out hexane
Bring Paria or transfer instructions into notebook
⇒ Just Part #2 Calibration
- ⇒ ③ Lab goggles (Book Store)
- ④ If you want → Lab Coat

