

## Practice Using Micropipettes

1. Transfer water from a stock tube to a small beaker (you can pour it).
2. You need to measure 5.0 and 7.5 ul . Select the correct pipette
3. For each volume set the pipette to the stated value.
4. Seat a tip on the pipette.
5. Put a piece of Parafilm on the pan of the fine-scale balance and tare it.
6. Pull up water into the micropipetter, carefully deliver to the Parafilm.
7. Record the mass delivered, and any observations about bubbles, droplets or other anomalies.
8. Blot the liquid with a Kimwipe and re-tare the Parafilm.
9. Repeat twice more, recording the masses.
10. Repeat for 7.5 ul
11. You are to measure 14.5 ul and 20.0ul. Select the correct pipettor.
12. Set the volume to 14.5 ul.
13. Seat a tip on the pipette.
14. Draw up and deliver water to the Parafilm.
15. Record the mass delivered and any other observations.
16. Blot the liquid with a Kimwipe and re-tare the Parafilm.
17. Repeat twice.
18. Repeat for 20ul.
19. Repeat steps 10-16 for volumes of 42.5 and 75.8 ul
20. Repeat steps 10-16 for volumes of 162.5
21. Take the average and standard deviation of your three measurements.
22. What conclusions can you draw about your pipetting, or your pipettors?