

# VALENCIA COLLEGE

## Chemistry

### Lab Technique #21a: Using a UV-Vis Spectrophotometer – Genesys 20

Turn on the instrument. Let it warm up for 15 minutes to allow the lamp and detector to stabilize.

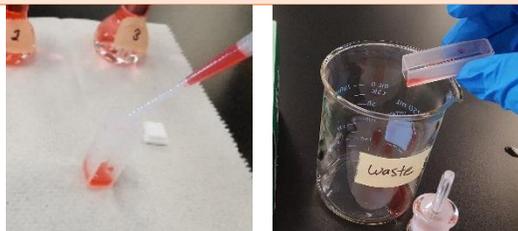
ON/OFF  
switch in back



#### Prepare your Sample in a Cuvette:

Condition first by rinsing the cuvette two times with a small portion of sample to ensure that your solution is the only species in the cuvette. Collect rinse in a waste beaker.

Pour the solution into the cuvette to approximately  $\frac{3}{4}$  full.



Make sure that the cuvette is clean and dry. Wipe any fingerprints with a KimWipe, not a paper towel, to avoid scratching the cuvette.



#### Make a Reading:

The two-line LCD readout displays data and simple instructions.

Select wavelength.

Select mode (Abs).

Lift the cover. Insert blank and close cover. Press 0 Abs/100%T.

If the cuvette has any frosted sides, make sure that the clear side of the cuvette faces front so that the beam passes through it and not the frosted side.

Remove the blank. Insert sample and make sure that the clear side of the cuvette faces front.

Observe readings.

Select wavelength



Mode (Abs, %T, C)

0 Abs/100%T

Note: This instrument is only available on the Lake Nona campus. If you are on the West campus, use Technique 21b.