

LAB 08: Colorimetry

Learning Objective:

Use a colorimeter to determine the concentration of a solution.

Materials:

1. *Cellphone with free Carolina Color Picker app*
2. *Cuvettes with different concentrations of water with food coloring*
3. *White paper*
4. *Computer with MS Excel*

Students:

1. It's recommended, but not required, that you download the free Carolina Color Picker app in advance of this lab. If you cannot, you may share with your teammates.
2. Set up four cuvettes full of water against white paper.
3. Add one drop of red food coloring to one cuvette, two drops to the next, and three drops to the next. One cuvette will have clear water.
4. Set up the cellphone with Carolina Color Picker leaned against a beaker.
5. Read R, B, and G values for the four cuvettes.
6. Graph using the [Excel graph provided](#).

References:

https://www.youtube.com/watch?v=YX-L59_0J9M