

Assignment 6.3.1: Spectrophotometer Build

1. Draw a diagram of your spectrophotometer in your notebook. (See “Spectrophotometer Circuit Diagram”)
2. Build your spectrophotometer according to the diagram, using the Altoids tin, and other components given to you.

If you finish the above and there is still time, you may start on the calibration of your spectrophotometer:

3. Create a table in your notebook and record your resistance measurements for each of the calibration samples.

<u>Sample</u>	<u>Resistance Measured (Ohms)</u>
Clear	R1 = ?
Black	R0 = ?
Max Concentration (1.0)	
0.9*Max Conc.	
0.8*Max Conc.	
0.6*Max Conc.	
0.4*Max Conc.	
0.2*Max Conc.	
0.1*Max Conc.	

Developed through a partnership between the University of Utah College of Engineering and Granite School District