

Graphing using Microsoft Excel 2007

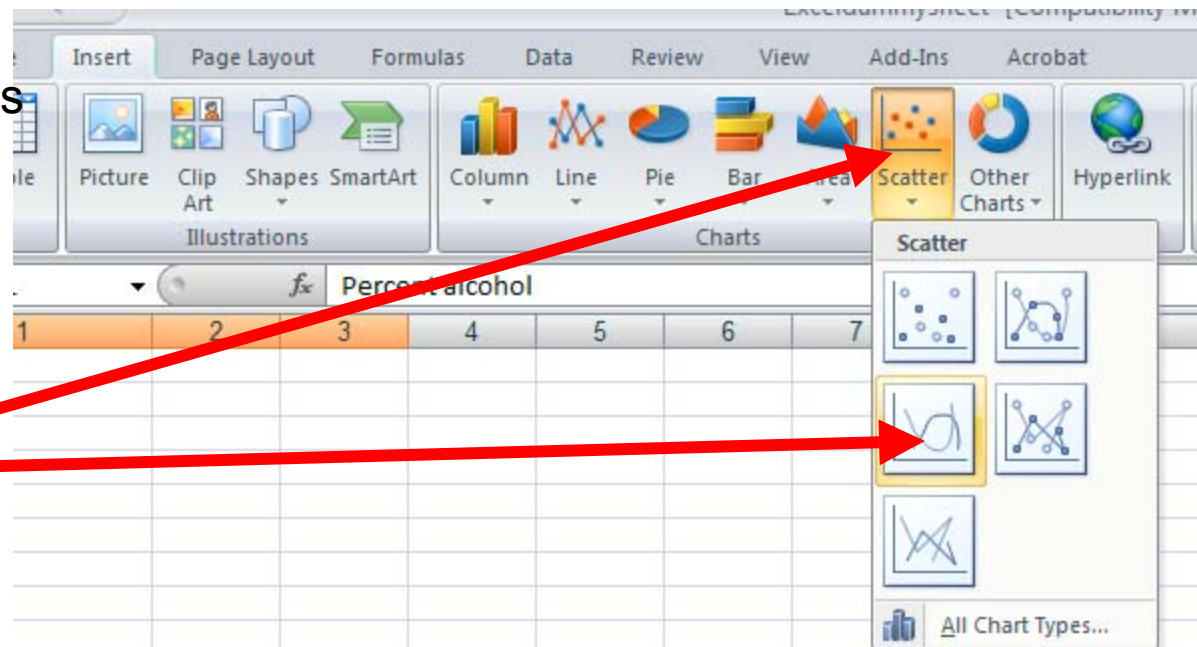
Excel tutorial #6- Graphing wavy lines

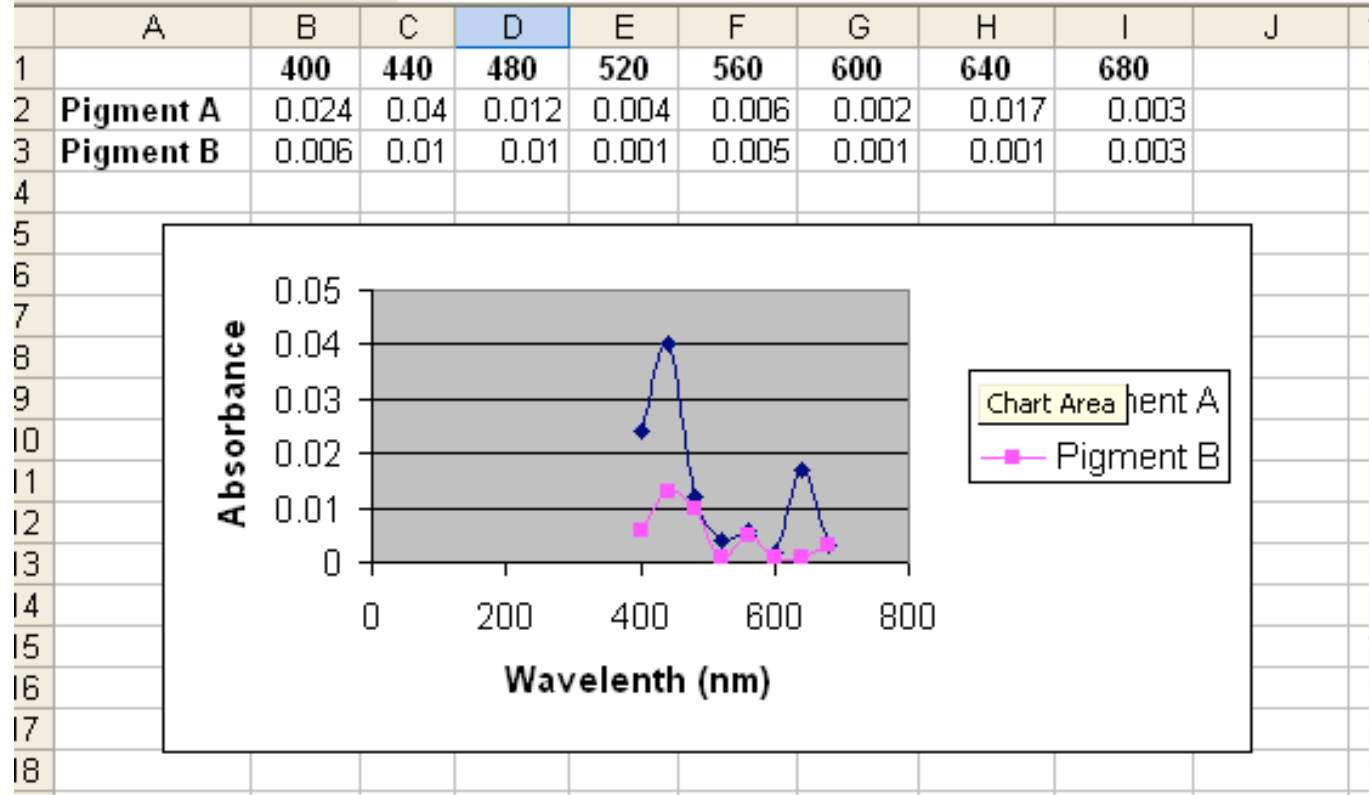
To graph data that produces wavy lines:

An “absorbance spectrum” was made for two pigments labeled “A” and “B” for our example, measuring absorbance at wavelengths from 380nm to 700 nm.

To graph this data, the data was selected the graphed using Insert/Scatter, and this subtype.

	400	440	480	520	560	600	640	680
Pigment A	0.024	0.04	0.012	0.004	0.006	0.002	0.017	0.003
Pigment B	0.006	0.01	0.01	0.001	0.005	0.001	0.001	0.003

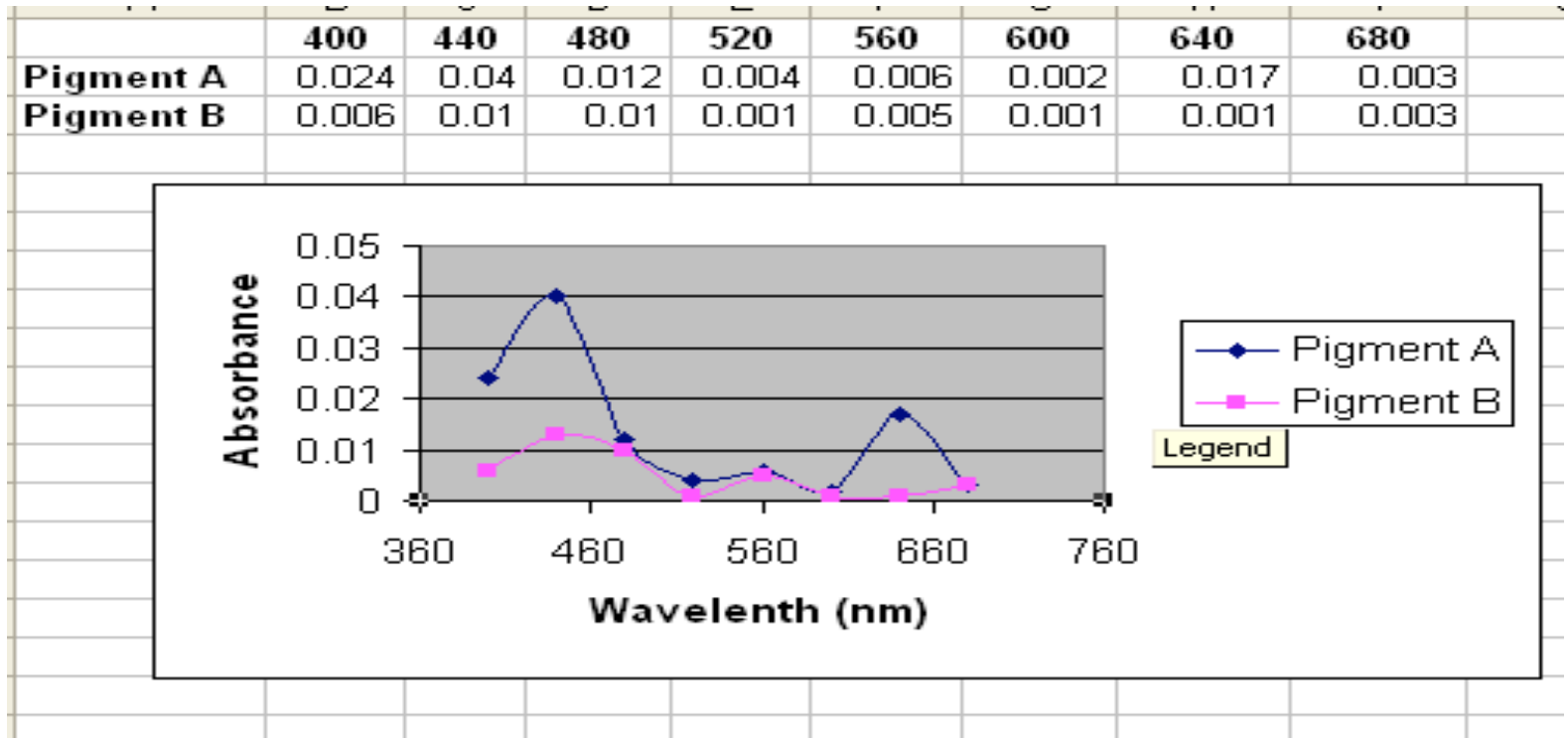




Note that this graph needs to be fixed, since we did not measure wavelengths less than 380nm (and thus the data gets “scrunched”).

To fix this graph, select **Layout/Axis/Primary Horizontal Axis/More Primary Horizontal Axis Options**. In the pop-up menu, select the **“Fixed button”** under Minimum, enter **“360”** for the minimum value. Then press **“Close”** tab.

Now the graph should look like this:



Now, one can make conclusions about which pigment is able to efficiently absorb which wavelengths of light.