

Laboratory 6 Assignment

Working with and interpreting the pigment absorption Data

Using the second page of this handout, produce a graph from the data in the table below. Make sure that the graph possesses all of the required elements.

Table 1. Absorbance of pigments across visible light spectrum

Wavelength	Chlorophyll a	Chlorophyll b	Xanthophyll	B Carotene	Total A	Total B
400	0.640	0.201	0.123	0.089	0.301	0.240
420	0.894	0.315	0.175	0.158	0.481	0.357
440	0.157	0.351	0.277	0.209	0.400	0.337
460	0.130	0.401	0.341	0.195	0.283	0.233
480	0.030	0.062	0.217	0.180	0.123	0.147
500	0.020	0.012	0.214	0.038	0.025	0.039
520	0.026	0.010	0.002	0.000	0.019	0.021
540	0.020	0.021	0.021	0.000	0.017	0.023
560	0.047	0.024	0.016	0.000	0.022	0.025
580	0.045	0.030	0.015	0.000	0.033	0.030
600	0.095	0.037	0.012	0.000	0.044	0.033
620	0.073	0.042	0.011	0.000	0.055	0.048
640	0.323	0.151	0.017	0.000	0.098	0.062
660	0.299	0.162	0.017	0.000	0.288	0.214
680	0.006	0.010	0.044	0.000	0.092	0.023
700	0.004	0.000	0.029	0.000	0.002	0.006
720	0.004	0.000	0.004	0.000	0.001	0.004

