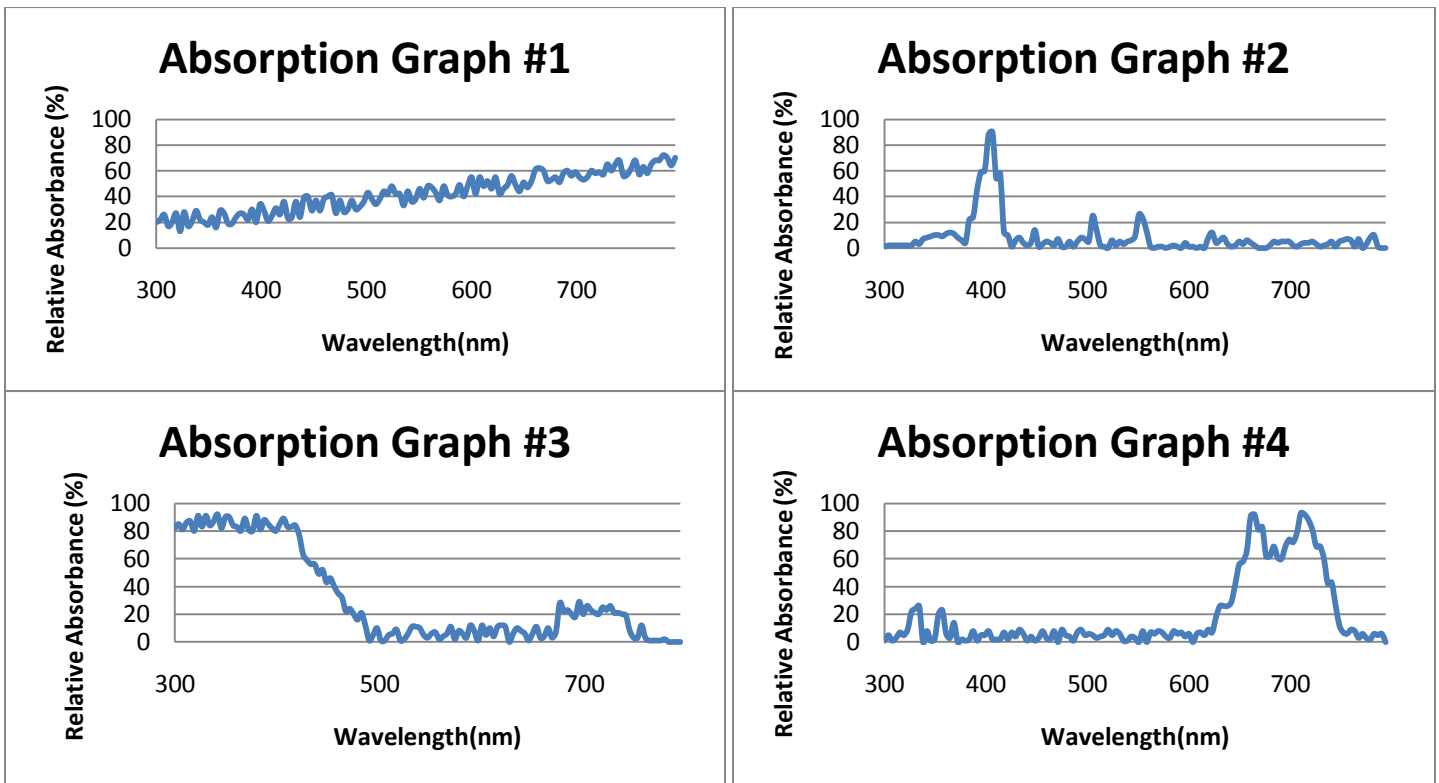


Light: Interaction with Matter and Applications

1. Match the Graphs to the given wavelengths. You can only use each wavelength once. Explain why each wavelength was used for each of the graphs. The wavelengths that need to be matched are: 356nm, 408nm, 662nm and 712nm.



2. Create absorption vs. wavelength graph that shows a high absorbance in the infrared to orange light, very little absorbance throughout the yellow to blue light which sharply peaks at the ultraviolet light.
3. List and Explain three different types of electromagnetic waves and their uses in the world today.