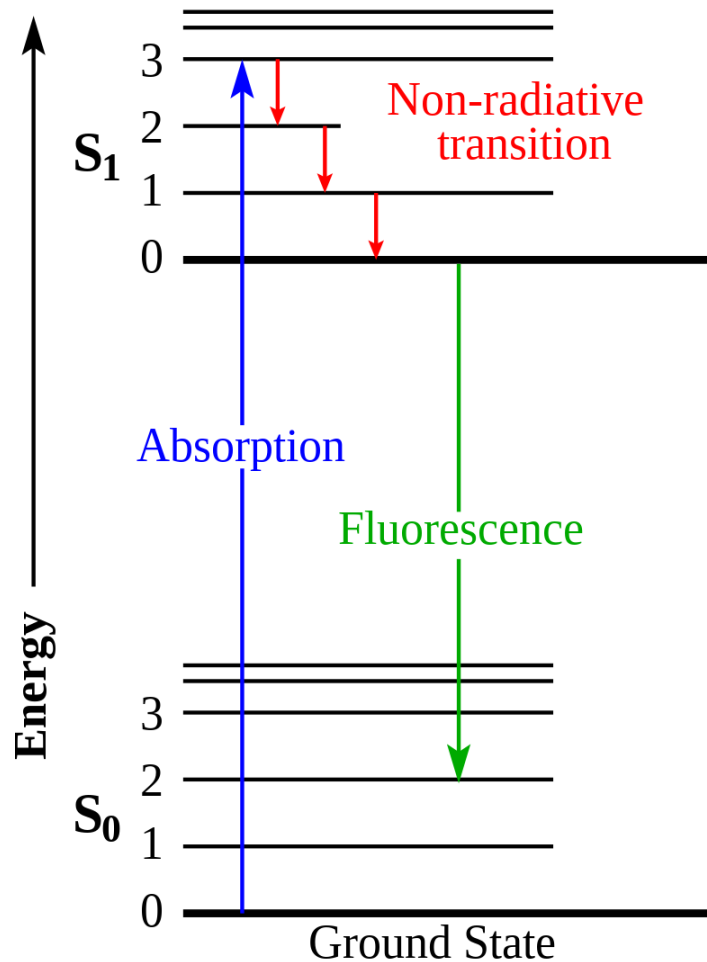


Name:

Fluorescence occurs when light is absorbed by a material moving electrons to a higher energy state. Some of the energy is removed via non radiative transitions, transitions where light is not given off. The remaining energy is then given off through a radiative transition, where light is emitted. Because some energy is lost through non radiative transitions, the emitted light is at a longer wavelength than the absorbed light. The most common example of fluorescence in your life would be white LEDs or black lights.



- 1) Based on what we saw in class, is fluorescence a broadband or narrowband phenomenon?

- 2) Based on what we saw in class, does the wavelength of fluorescence change with the light exciting it?

- 3) Pick a sample we looked at in class and describe how it looks when illuminated with the green light and the blue light

- 4) What are examples of fluorescence you see daily?

- 5) What is one way you can think of fluorescence being useful or an application of fluorescence spectroscopy?