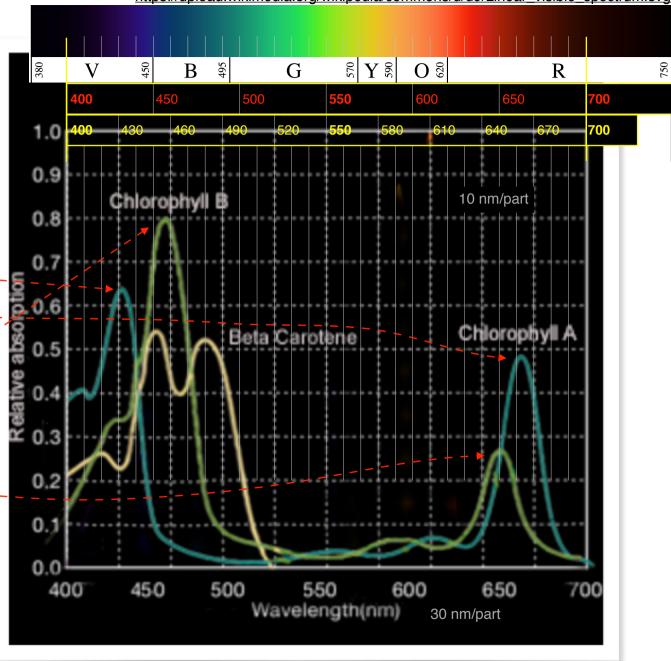
https://upload.wikimedia.org/wikipedia/commons/d/d9/Linear_visible_spectrum.svg

"For the two photosystems I & II, chlorophylls a & b exist to assist the photosynthetic process by absorbing specific spectra of light energy. Chlorophyll a absorbs the violet blue - blue wavelengths of light (390-450nm with peak at 420nm (433?)) and orange to far-red (600-700nm with a peak at 680nm (663?)). Chlorophyll b however absorbs violet blue to green blue light (390-500nm with a peak at 480nm (457?)) and yellow to red light (600nm-680nm with a peak at 630nm (650?)). Plants still use the green and yellow spectra as there exist photopigments that turn green or yellow photons (500-600nm wavelengths) into blue and red photons through excitation and emittance reactions."



Source: <a href="https://www.exciteled.eu/blog/light-and-photosynthesis/blue-and-red-light-in-photosynthesis/blue-and-red-

Analysis by Øyvind Teig, Trondheim http://www.teigfam.net/oyvind/home/hobby/174-my-aquarium-notes/