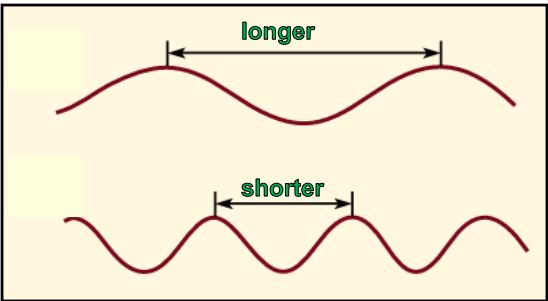
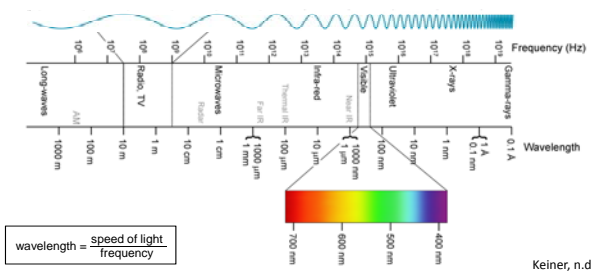


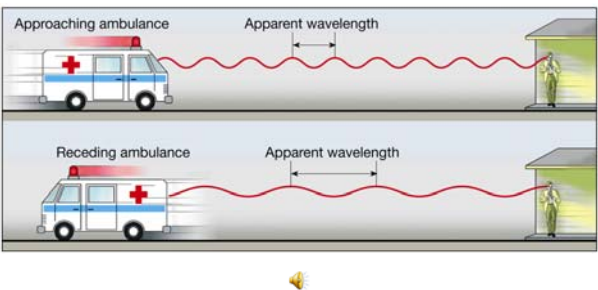
A wavelength is a measure of distance between crests (or troughs) of a wave.



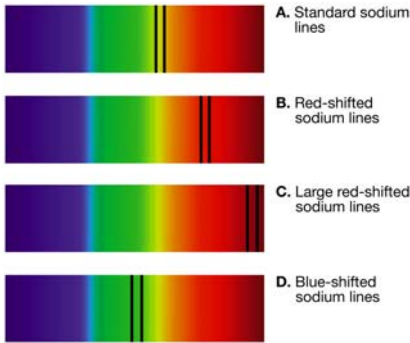
The electromagnetic spectrum includes all wavelengths moving at the speed of light.



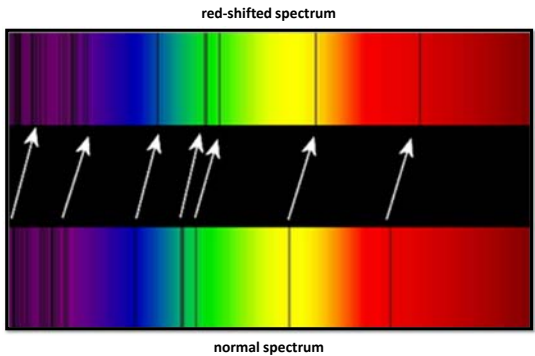
Wavelengths can change if the source and observer move toward or away from each other.



The characteristic spectral lines may be shifted toward the red (longer) or blue (shorter) end.



Redshifted spectra indicate that the distance between source and observer are increasing.



Increasing the distance between source (galaxies) and observer indicate expansion of the universe.

