

Topic: Modern Astronomy

Aim:

Big Bang Theory - the most accepted theory which explains how a huge explosion formed the Universe approximately 13.8 billion years ago.

Evidence #1 - _____

Evidence #2 - _____

Each gas has its own spectral line pattern (bright line spectrum) that is unique. Scientists can determine the composition of gases within a star based on observing bright line spectra.

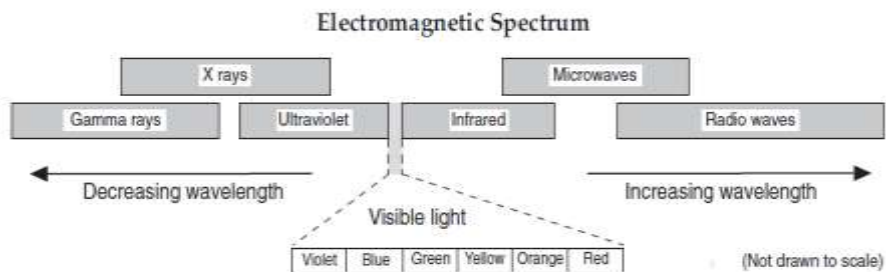
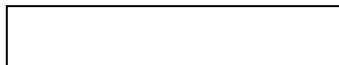


Diagram Illustrating Red Shift of Spectral Lines

normal laboratory spectrum of a gas (in this case - hydrogen)



red shifted spectral lines as seen in a galaxy moving away from us



Blue Shift

Hubble's Law -