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SPECTROSCOPY PRELAB

1) What is a spectrum?

- 2) Name the 3 types of spectra and, in 1 sentence each, describe them.
 - a.
 - b.
 - C.
- 3) Use Wien's law to calculate the surface temperature of the star Alnilam (ϵ Orionis). The peak wavelength (λ_{peak}) of the star is 0.116 μm . How does this temperature compare to the surface temperature of the Sun?

4) What happens to absorption lines when the gas is fully ionized? Why?