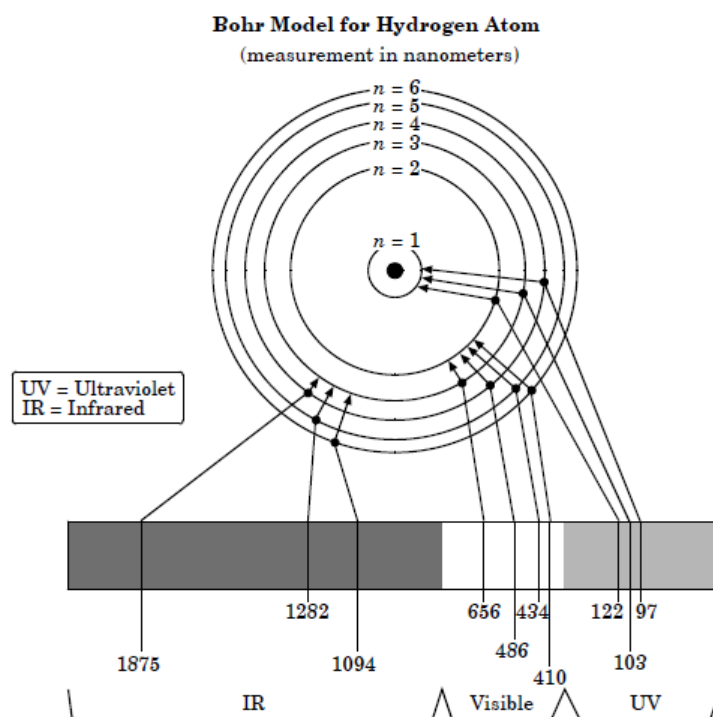


Unit 2, Video 6: Electromagnetic Spectrum

1. Define wavelength.
2. True or False: Measuring from midpoint to midpoint on a wave describes the length of the wavelength.
3. True or False: A gamma ray has a shorter wavelength than ultraviolet light.
4. True or False: The speed of gamma wave is much faster than the speed of a radio wave.
5. Define frequency.
6. True or False: Frequency and wavelength are directly proportional. As frequency increases, wavelength increases.
7. True or False: Electrons give off light when they go from a lower to a higher energy level.
8. Why will an electron transition from the $n=1$ to the $n=3$ energy level not cause light to be given off?
9. What wavelength of light will be given off when an electron drops from the $n=4$ to the $n=1$ energy level?
10. What type of light will be given off when an electron drops from the $n=5$ to the $n=2$ energy level?



From the NCDPI Reference Tables For Chemistry.