

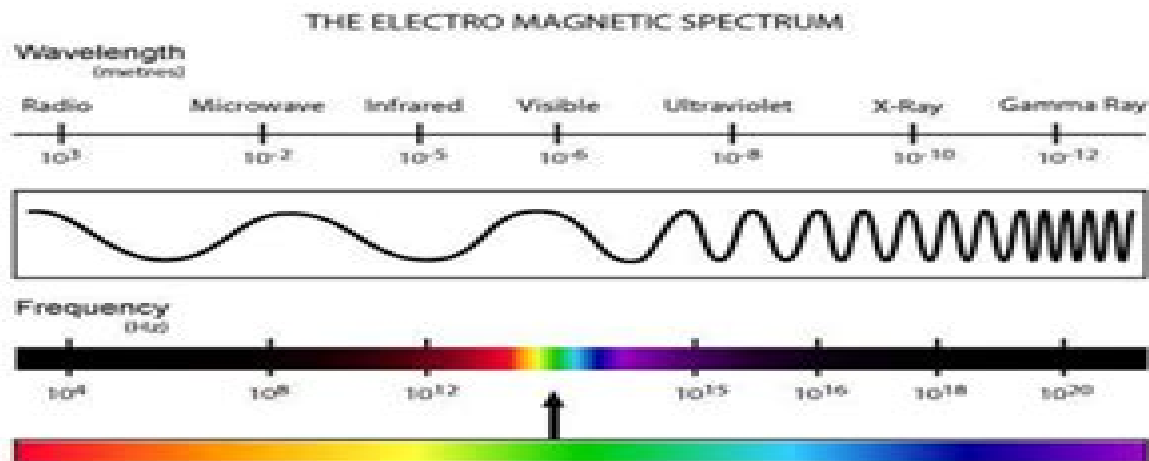
41G Astronomy - Spectra Lab

By: _____

Part 1: Flame Tests

Part 2: Atomic Spectra

Part 3: Applications of Spectra



In Part One, wooden splints dipped in solutions of metal salts are heated using a Bunsen burn producing different colored flames. By comparing the color given off by an unknown with the known metal salts, the identity of the metal salt can be determined. In Part Two, electricity is passed through the gas discharge tube resulting in different colors. When the light is passed through a diffraction grating, it is broken into components, producing a line spectrum of the element. A comparison of the line spectrum with those of known gases will allow one to determine the identity of the unknown gas. Also, you will investigate the visible light emission of "general" light sources. In Part Three, you will research various applications and/or natural occurrences of line spectra such as astronomy, aurora borealis, fireworks and neon lights.

Astronomy Spectra Lab

Derek McNally



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