

Chem alternate assignment for Spectroscopy/Flame Test Lab

- 1) List the colors of visible light in order from low energy to high energy.
- 2) What is a FLAME TEST? How does it work?
- 3) What is a SPECTROSCOPE? How does it work?
- 4) Compare and contrast CONTINUOUS SPECTRUM and EMISSION SPECTRUM.
- 5) Compare and contrast FLUORESCENT LIGHT and INCANDESCENT LIGHT.
- 6) Compare and contrast QUANTUM and PHOTON.
- 7) Compare and contrast an electron's GROUND STATE and EXCITED STATE.
- 8) (from lab sheet) What is meant by an "energized" or "excited" gas?
- 9) (from lab sheet) Would you expect RED light to have a wavelength closer to 4000 or 7000? Why?
- 10) (from lab sheet) Would you expect VIOLET light to have a wavelength closer to 4000 or 7000? Why?