



CALIFORNIA CONTENT STANDARDS:

1g: Students know that spectral lines are the result of transitions of electrons between energy levels and that these lines correspond to photons with a frequency related to the energy spacing between levels by using Planck's relationship, ($E=h\nu$)

CALIFORNIA CONTENT STANDARDS:

5.3.1: Describe the relationship between the wavelength and frequency of light.

5.3.2: Identify the source of atomic emission spectra

5.3.3: Explain how the frequencies of emitted light are related to changes in electron energies.

Stamp WB: Have students pass work to the north of lab, TAs will stamp work

Electron Configuration
WB Page 154-155

Class Hand out Practice Problems 5.1 (20 Min)
Energy Levels of Hydrogen

Review: Students take out piece of paper.
Complete the three practice problems in 5.1
Go over answers once class is finished
Collect handouts after work is completed

Video: **Bill Nye: Light and Color (30 Min)**
Hand out Video Questions
Have students answer questions while watching video
Collect Handouts

Video: **Bill Nye: Light Optics**
Hand out Video Questions
Have students answer questions while watching video
Collect handouts

Home Work: None