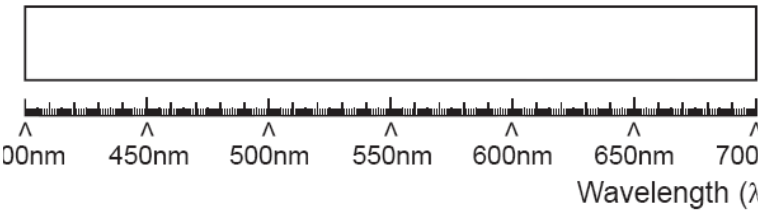
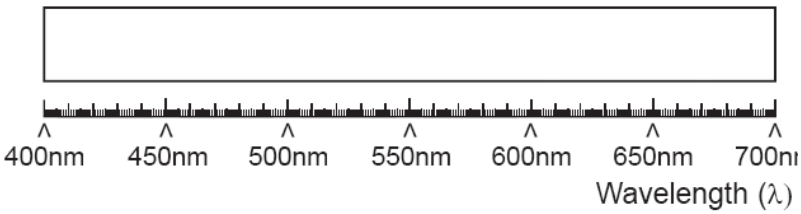
NAME:_____ Spectroscopy Lab

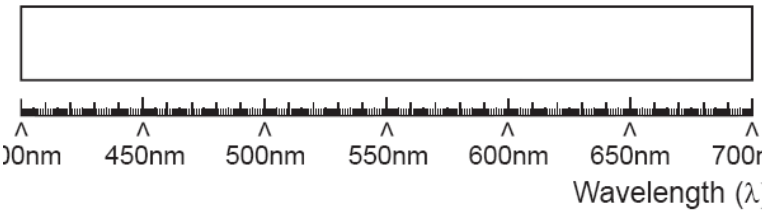
Spectrums: So excited!!

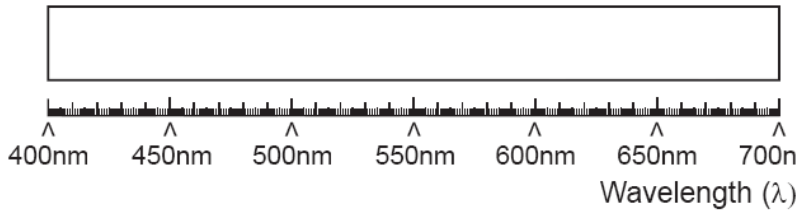
In this section you will be looking at different spectra of elements and determining what the spectra means and where it comes from.

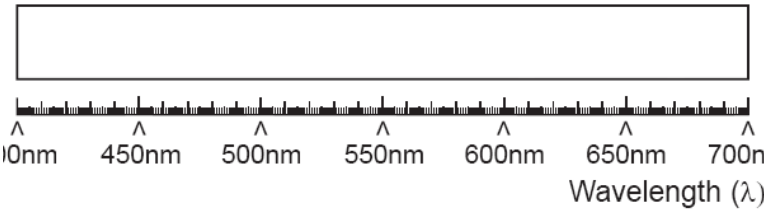
Below is a blank ruler where you will record your data. Draw what you see at the appropriate wavelength and you do not have to draw every line. **Write the name of the spectra on top of the box with the ruler.**

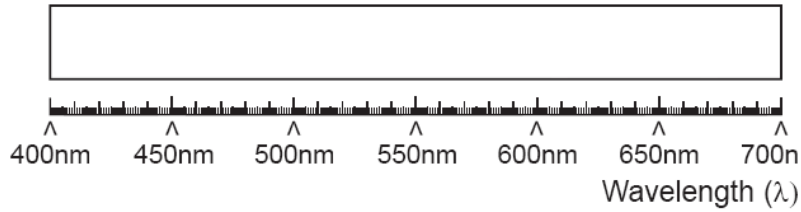




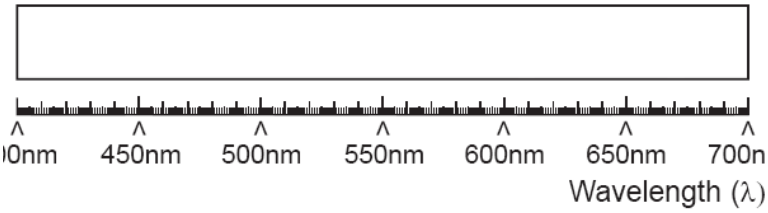




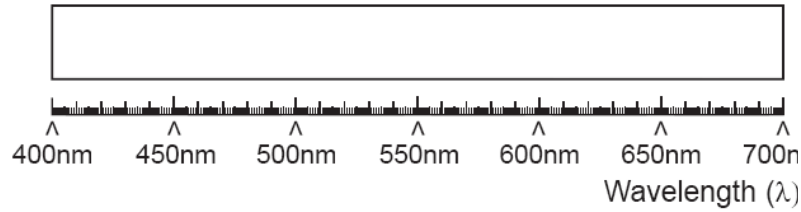




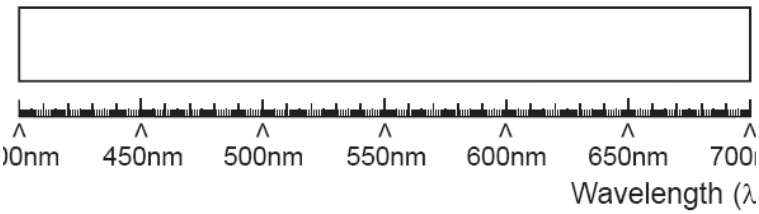
Discharge Tube: ___



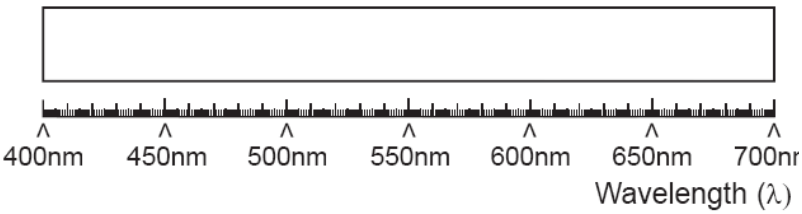
Sun Spectra



Fluorescent Light Bulb Spectra



Light Bulb



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CRITICAL THINKING QUESTIONS

1. Why are there differences between the spectra? *(Hint: Think about the electrons)*

2. Where do the emission lines come from? *(Hint: Think about question 2 and the title Spectra: SO EXCITED.)*

3. Where did the energy come from? *(Hint: What are the discharge tubes attached too?)*

4. Sunlight and incandescent light give off light of continuous wavelength. What do the spectra look like?

5. What is special about the fluorescent light bulb?