

Name: \_\_\_\_\_

Date: \_\_\_\_\_

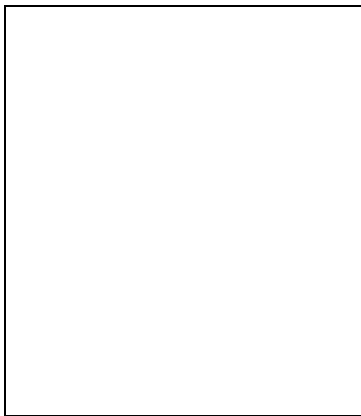
## Building your own Spectrometer Activity

Please visit the website

<http://www.scienceinschool.org/2007/issue4/spectrometer/> and follow the instruction for building you own spectrometer.

After building you spectrometer choose three different light sources and observe their spectra answering the following questions. Be creative in your choice there are light sources everywhere!!

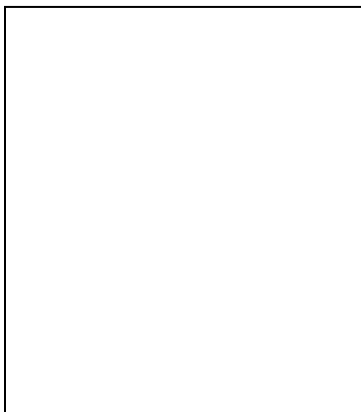
Light Source #1 \_\_\_\_\_



Draw the spectra you observed form your light source in the box using color pencils.

Describe what you think is happening in the spectra.

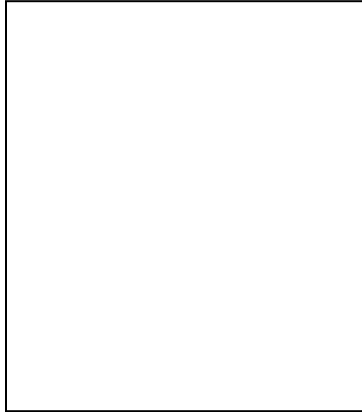
Light Source #2 \_\_\_\_\_



Draw the spectra you observed form your light source in the box using color pencils.

Describe what you think is happening in the spectra.

Light Source #3 \_\_\_\_\_



Draw the spectra you observed from your light source in the box using color pencils.

Describe what you think is happening in the spectra.

Are these spectra continuous? Define and discuss.

Why do the different light sources give different spectra if they are all part of the visible spectrum?

What do the dark lines in the spectra represent? Are they always present?

Did you get any spectra with only a single color? Why do you think this occurred? (Think of your light source)