			Pre	Ņ	4.	'n	?	1.	Pre	S A C C C	. o.	Name Env. I
3) Why are we able to see this spectrum? (Hint: It has to do with the lens in your eye)	2) What part of the electromagnetic spectrum can we see? Meaning: What is it called?	1) What is the electromagnetic spectrum?	Pre- Lab Questions:	The teacher may provide other light sources. Repeat step 1 for each of these sources.	Point the spectroscope at the black light source in the room. Make a drawing of the spectrum you see.	Point the spectroscope through a window at the sky away from the sun. CAUTION: Do not look directly at the sun. Make a drawing of the spectrum you see.	Repeat step 1 using a fixed fluorescent light source such as the light in the ceiling. Make a colored sketch of this pattern.	Turn on a lamp with an incandescent bulb. Observe the spectrum that appears on the screen at the rear of your spectroscope. Use color pencils to draw the pattern you see in the space provided.	Procedure:	Materials:  Spectroscope  Lamp with incandescent bulb  Colored pencils and spectrum coloring grids  Additional light sources provided and operated by teacher. WARNING: STAND 3 FEET AWAY FROM SPECTRUM TUBES. DO NOT TOUCH ANY LIGHT UNIT.	Simple Spectroscope Lab  Compare spectra from different light sources	Name Date Period

## Env. Earth Science

Post Lab Questions (Analysis and Conclusions):
1. Compare and contrast the spectra for incandescent, fluorescent, and daylight. How are all three similar?
How are all three different? (hint: use your drawings)

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	Daylight	Fluorescent	Incandescent	Light source
				Similarities
				Differences

2. Describe the spectrum for backlight. What type of spectrum is it? How do the colors differ from the other spectra you have seen? (hint: use your drawings)

3. Describe the spectrum for neon and hydrogen. What type of spectrum was in each? How are they alike and how are they similar?

Hydrogen	Neon	Light source
		Spectrum (colors) present
		Comparison of neon and hydrogen spectrum

4) What does the spectrum tell you about the composition of white light? (hint: use your drawings)