

Emission Spectroscopy LAB

Name: _____

Chemistry – Block _____

Date: _____

Part I: Complete the back side of this sheet following the directions from the procedure.

Part II: Complete the answers to these questions below.

#1: Your white light drawing should look very different from the emission spectra for the 5 pure elements. *How* is your white light drawing different from your drawings of the other elements? *Why* is the white light so different?

#2: Compare your bands of light (when you used the diffraction gratings) to the bands of light on this website: <http://www.colorado.edu/physics/2000/quantumzone/> Read carefully the first part of this website. Scroll down to the part where you can select different elements. Use this information to compare what YOU saw to what you SHOULD have seen. Be specific.