



LESSON PLAN: STELLAR FINGERPRINTS: THE SPECTRA OF STARS

Activity Sheet 2

Name _____

Identifying Emission Spectra

1. Use the space provided to sketch the emission spectra of the elements. Then write the name of the element on the line provided next to "emission spectrum."

violet
red

_____ emission spectrum

violet
red

_____ emission spectrum

violet
red

_____ emission spectrum

violet
red

_____ emission spectrum

2. Explain how the bands of light are produced in the emission spectra.
3. Explain how you were able to identify the unknown element contained in the discharge tube.
4. Why would astronomers need to know how to identify elements?