

Define and differentiate between the following:

- Continuous spectrum
- Absorption spectrum
- Emission spectrum

Draw an example of each.

- Continuous spectrum
- Absorption spectrum
- Emission spectrum



Below are the emission spectra of four elements and the spectrum of an unknown sample of gas.

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Li							
Н							
He							
Na							
Unknown							

- 1. What elements are found in the unknown sample?
- 2. How were you able to exclude the other elements not present in the unknown sample?
- 3. Young stars contain a large amount of hydrogen and a small amount of helium and other elements. Could this be the spectrum of a young star? Why or why not?

Complete the following emission spectra data table using your spectrometer.

Source 1:





Source 2:



Source 3:

D	0	V	G	В	- I	V

Predict the absorption spectra of one of your observations above.

Absorption spectra of _____

