

Pre-Lab

Continuous, Emission, and Absorption Line Spectra

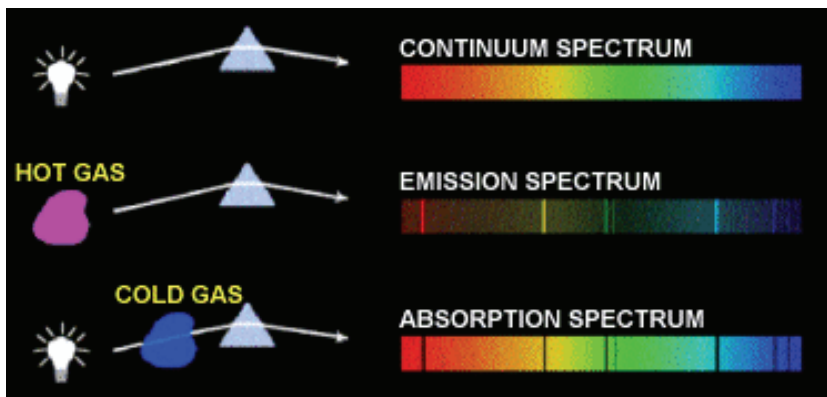


Image on several different websites, e.g. http://ibchem.com/IB/ibnotes/full/ato_hm/2.2.htm.

1. Read the sections on spectroscopy in your textbook in substantial detail.
2. What is the difference in *appearance* between (a) a continuous spectrum, (b) an emission line spectrum, and (c) and absorption line spectrum.

3. Under which *conditions* do you get (a) a continuous spectrum, (b) an emission line spectrum, and (c) and absorption line spectrum. Use the figure below to explain your answer.

4. Define the term “Black Body”.

5. Draw a black body spectrum.

6. Explain the *cause* of a black body spectrum.

7. Explain the *cause* of an emission line spectrum.

8. Explain the *cause* of an absorption line spectrum.
