

Activity: Grab a spectroscope and use it to look at the following:

- **Sunlight (not directly)**
- **Fluorescent Light**
- **Helium Tube**
- **Oxygen Tube**
- **Hydrogen Tube**

Use colored pencils and markers to draw the spectral lines (color pattern). Explain the differences that you see.



When light passes through a diffraction grating (slit) of a certain size it the light separates into its respective colors.

In this unit we want to understand what creates light and why **each element has a unique set of spectral lines.** In order to do that we need to take a deeper look at electrons...