

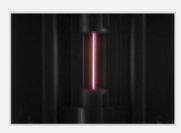



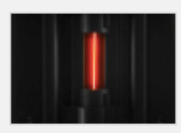

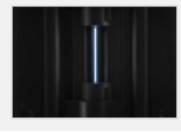



## SAMPLE DATA

Before electricity is applied, all gases will be colorless. They need electricity for excitation.

After electricity is applied, colors appear as shown below.

Type of Gas	Colors Observed without Spectroscope	Colors Observed with Spectroscope
Hydrogen		
Nitrogen		
Helium		
Neon		
Carbon Dioxide		<p><i>Image Sources:</i>            NASA Space Telescope Science Institute. (2019, June 6). Spectra showing different elements. Hubblesite.  <a href="https://hubblesite.org/image/4511/category/115-spectra">https://hubblesite.org/image/4511/category/115-spectra</a></p> <p>Noschese 180. (2014). Emission spectra. A picture-a-day for the school year. <a href="https://noschese180.files.wordpress.com/2014/12/emission_spec.png">https://noschese180.files.wordpress.com/2014/12/emission_spec.png</a></p> <p>University of Texas. (n.d.). Line spectra in hydrogen. Chemistry 301  <a href="https://ch301.cm.utexas.edu/atomic/index.php#H-atom/line-spectra.html">https://ch301.cm.utexas.edu/atomic/index.php#H-atom/line-spectra.html</a></p> <p>Vernier. (n.d.). Spectrum tubes.  <a href="https://www.vernier.com/product/spectrum-tubes/">https://www.vernier.com/product/spectrum-tubes/</a></p>
Air		
Argon	