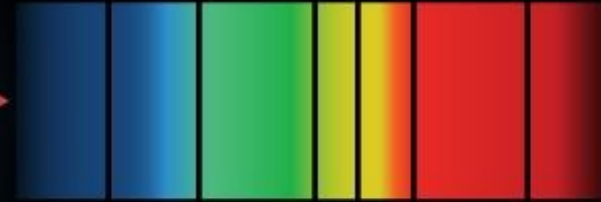


# 24.1: The Study of Light

Spectroscopy: the study of the properties of light that depend on wavelength.

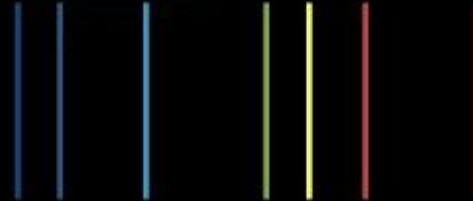
Source of continuous spectrum



Continuous spectrum with dark lines



Continuous spectrum



Bright line spectrum

# The Spectrums We Use to Analyze Light...

## 1. Continuous spectrum

produced by an incandescent solid, liquid or gas under high pressure.



## 2. Absorption spectrum

produced when visible light is passed through a relatively cool gas under low pressure



### 3. Emission Spectrum

produced by a hot gas under low pressure.



The spectral lines can help us identify the elements present, the chemical composition.

[Spectroscopy intro](#)