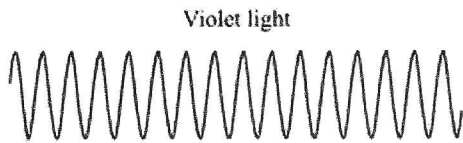


OPEN RESPONSE #6: Electromagnetic Waves

When some elements are put into a flame, they emit colored light. Yellow light is emitted from one element and violet light is emitted from another element.

- a. Describe the differences between yellow light and violet light in terms of frequency **and** wavelength.
The diagram below represents violet light.



- b. Copy the diagram of violet light into your Student Answer Booklet. Below your diagram, draw and label a representation of yellow light that illustrates how its frequency and wavelength are different from that of violet light.
- c. Yellow light and violet light are both in the visible range of the electromagnetic spectrum. Identify **two** other similarities between yellow light and violet light.