

# POGIL: When an Atom Drinks Red Bull

Honors Chemistry  
Unit 07 - The Atom  
Page 1 of 3

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Model 1: White Light

Lightbulb  
(white light)

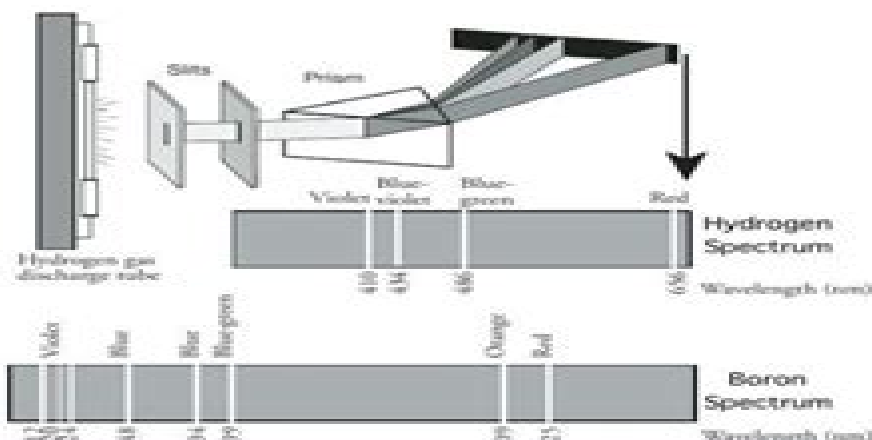
Prism

Color	Photon Energy ( $\times 10^{-19}$ ) (J)	Wavelength Range (nm)	Speed (m/s)
Reds	269–318	625–740	$3.00 \times 10^8$
Oranges	318–337	590–625	$3.00 \times 10^8$
Yellows	337–352	565–590	$3.00 \times 10^8$
Greens	352–382	520–565	$3.00 \times 10^8$
Blues	382–452	440–520	$3.00 \times 10^8$
Violens	452–523	380–440	$3.00 \times 10^8$

- Do all colors of light travel at the same speed? If no, which color has the greatest speed?
- Do all colors of light have the same energy? If no, which color has the highest energy and which color has the lowest?
- Consider the light illustrated in Model 1.
  - Which color corresponds to the longest wavelength?
  - Which color corresponds to the shortest wavelength?
  - Write a sentence that describes the relationship between wavelength and energy of light.

## Model 2: Emission Spectra for Hydrogen and Boron Atoms

- Consider the boron spectrum in Model 2. Thinking about your answers to question 3, ...
  - which color line of light corresponds to the shortest wavelength?
  - which color line of light corresponds to the longest wavelength?
- Consider the hydrogen spectrum in Model 2. Thinking about your answers to question 2, ...
  - which color line of light has the most energy?
  - which color line of light has the least energy?



# Pogil Project Flinn Science Electron Energy And Light

**M Carnoy**



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