

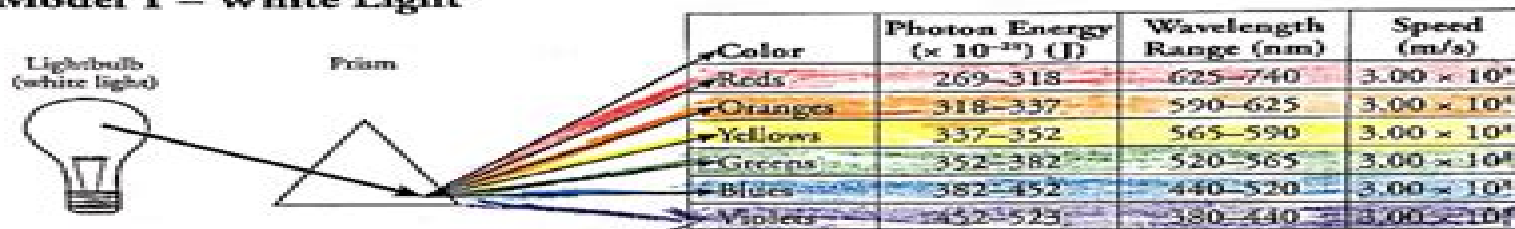
# Electron Energy and Light

How does light reveal the behavior of electrons in an atom?

## Why?

From fireworks to stars, the color of light is useful in finding out what's in matter. The emission of light by hydrogen and other atoms has played a key role in understanding the electronic structure of atoms. Trace materials, such as evidence from a crime scene, lead in paint or mercury in drinking water, can be identified by heating or burning the materials and examining the color(s) of light given off in the form of bright-line spectra.

## Model 1 – White Light



- Trace the arrows in Model 1 and shade in the table with colored pencils where appropriate.
- What happens to white light when it passes through a prism?

*The different wavelengths get separated*

- Why are the color labels in the table in Model 1 plural (i.e., "Reds" rather than "Red")?

*many different shades of a color in a range of wavelength*

- Do all colors of light travel at the same speed?

*Yes*

- Do all colors of light have the same energy? If no, which colors have the highest energy and the least energy, respectively?

*All colors do not have the same energy. Blues + violets highest  
Reds + oranges lowest*

- Consider the light illustrated in Model 1.

- Which color corresponds to the longest wavelengths?

*Reds*

- Which color corresponds to the shortest wavelengths?

*Violets*

- Write a sentence that describes the relationship between wavelength and energy of light.

*As the wavelength gets shorter the energy of light increases*

# Electron Energy And Light Pogil

**Padhraic Smyth**



## **Electron Energy And Light Pogil:**

## Decoding **Electron Energy And Lifht Pogil**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Electron Energy And Lifht Pogil**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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