

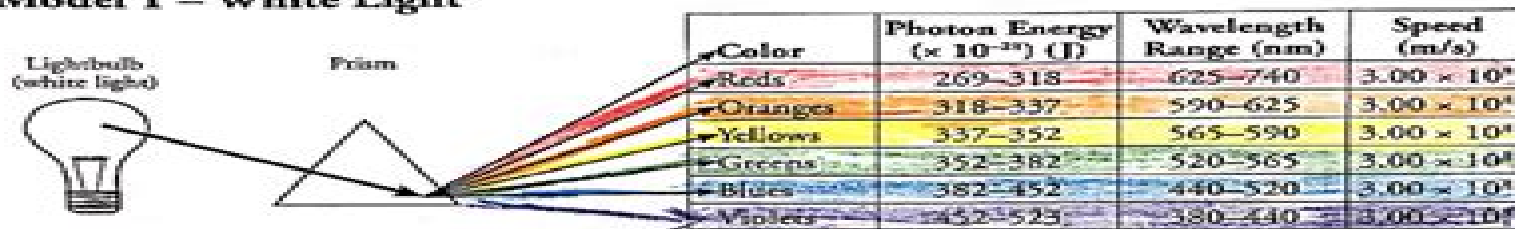
Electron Energy and Light

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

Light And Electrons Pogil Answers

Hendrik A. Lorentz



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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more **Theory of Electrons and Its Applications to Light and Heat** Textbook

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