

# 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 Light Pogil Answer Key

**SJ Ball**



## **Electron Energy Light Pogil Answer Key:**

**Science Citation Index** ,1993 Vols for 1964 have guides and journal lists      **The Energy of Photo-electrons from Sodium and Potassium as a Function of the Frequency of the Incident Light** William Henry Kadesch,1914

Electron energy determinations R. L. Graham,1960      **Energy: Light Energy** George Graybill,2013-10-01 This is the chapter slice Light Energy from the full lesson plan Energy Unlock the mysteries of energy Energy is more than the ability to do work we present these concepts in a way that makes them more accessible to students and easier to understand The best way to understand energy is to first look at all the different kinds of energy including What Is Energy Mechanical Energy Thermal Sound Energy and Waves as well as Light Energy Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary We also explore other forms of potential energy as well as how energy moves and changes Written to grade and comprised of reading passages student activities and color mini posters our resource can be used effectively for your whole class All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives      **Photo-electricity** Herbert Stanley Allen,1925

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