

# 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 Extension Questions

## Answer Key

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## **Table of Contents Electron Energy And Light Pogil Extension Questions Answer Key**

1. Understanding the eBook Electron Energy And Light Pogil Extension Questions Answer Key
  - The Rise of Digital Reading Electron Energy And Light Pogil Extension Questions Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Electron Energy And Light Pogil Extension Questions Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electron Energy And Light Pogil Extension Questions Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electron Energy And Light Pogil Extension Questions Answer Key
  - Personalized Recommendations
  - Electron Energy And Light Pogil Extension Questions Answer Key User Reviews and Ratings
  - Electron Energy And Light Pogil Extension Questions Answer Key and Bestseller Lists
5. Accessing Electron Energy And Light Pogil Extension Questions Answer Key Free and Paid eBooks
  - Electron Energy And Light Pogil Extension Questions Answer Key Public Domain eBooks
  - Electron Energy And Light Pogil Extension Questions Answer Key eBook Subscription Services
  - Electron Energy And Light Pogil Extension Questions Answer Key Budget-Friendly Options
6. Navigating Electron Energy And Light Pogil Extension Questions Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Electron Energy And Light Pogil Extension Questions Answer Key Compatibility with Devices
  - Electron Energy And Light Pogil Extension Questions Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electron Energy And Light Pogil Extension Questions Answer Key
  - Highlighting and Note-Taking Electron Energy And Light Pogil Extension Questions Answer Key
  - Interactive Elements Electron Energy And Light Pogil Extension Questions Answer Key

8. Staying Engaged with Electron Energy And Light Pogil Extension Questions Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electron Energy And Light Pogil Extension Questions Answer Key
9. Balancing eBooks and Physical Books Electron Energy And Light Pogil Extension Questions Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electron Energy And Light Pogil Extension Questions Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electron Energy And Light Pogil Extension Questions Answer Key
  - Setting Reading Goals Electron Energy And Light Pogil Extension Questions Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electron Energy And Light Pogil Extension Questions Answer Key
  - Fact-Checking eBook Content of Electron Energy And Light Pogil Extension Questions Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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