

## Section 1: Light and Quantized Energy - Notes

### Objectives:

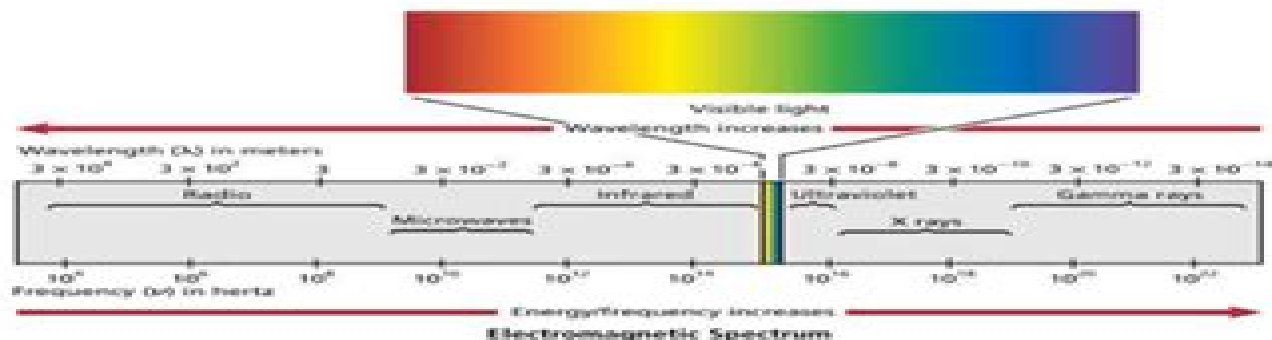
- Compare the wave and particle natures of light.
- Define a quantum of energy, and explain how it is related to an energy change of matter.
- Contrast continuous electromagnetic spectra and atomic emission spectra.

### Unanswered Questions:

- In Rutherford's model, the atom's mass is concentrated in the \_\_\_\_\_ and \_\_\_\_\_ move around it.
- This model doesn't explain how the \_\_\_\_\_ were arranged around the nucleus.
- This model also doesn't explain why \_\_\_\_\_ charged electrons aren't pulled into the \_\_\_\_\_ charged nucleus.

### The Wave Nature of Light:

- In the early 1900s, scientists observed that certain elements emitted \_\_\_\_\_ when heated in a flame.
- Analysis of this light revealed that an element's \_\_\_\_\_ is related to the arrangement of the \_\_\_\_\_ in its atoms.
- Visible light is a type of \_\_\_\_\_
  - **Electromagnetic radiation:** a form of energy that exhibits \_\_\_\_\_
- Light is a type of energy that travels through space at a constant speed of \_\_\_\_\_
- The electromagnetic spectrum includes all forms of electromagnetic radiation:



# Light And Quantized Energy Study Guide Answer

**Ying Liu**



## **Light And Quantized Energy Study Guide Answer:**

## **Light And Quantized Energy Study Guide Answer** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Light And Quantized Energy Study Guide Answer**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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