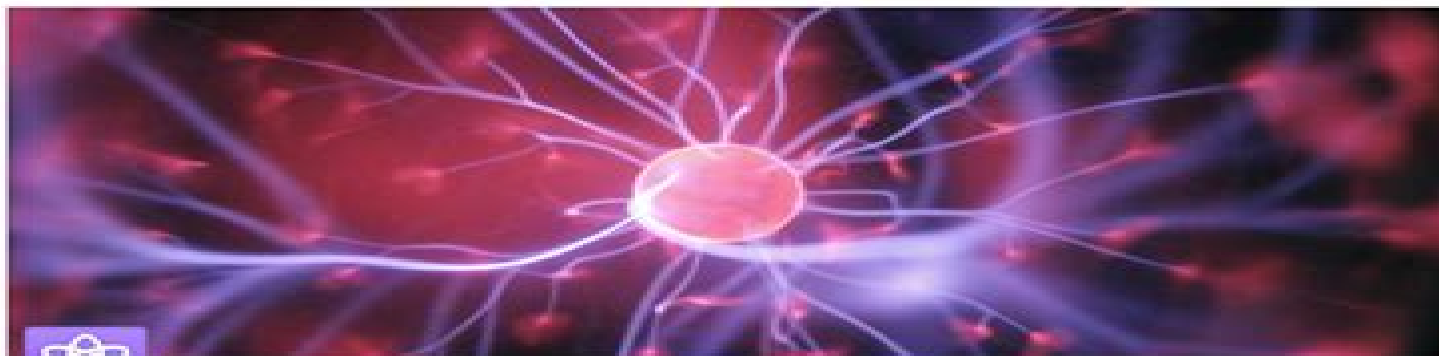




Chapter 5 - Electrons in Atoms - Outline

5.1 - Light and Quantized Energy

The Atom and Unanswered Questions

- Rutherford proposed that all of an atom's positive charge and virtually all of its mass are concentrated in a nucleus that is surrounded by fast-moving electrons
- Scientists observed that certain elements emitted visible light when heated in a flame
- analysis of the emitted light revealed that an element's chemical behavior is related to the arrangement of the electrons in its atoms

The Wave Nature of Light

Visible light is a type of **electromagnetic radiation**, a form of energy that exhibits wave-like behavior as it travels through space

Characteristics of Waves

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David Smith



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