

## Chemistry – Unit 6 Notes 1 - Thomson Model of the Atom

J. J. Thomson performed experiments with cathode rays in an attempt to understand electricity – which was still a mystery in the late 1800s. Use the website *A Look Inside the Atom*<sup>1</sup> to find the conclusions that Thomson and other physicists drew regarding the mysterious cathode rays.

Thomson's 1897 Experiments - state the conclusions Thomson drew from each of his famous cathode ray experiments:

1. **First Experiment:** Thomson directed the beam at an electrometer and tried to separate the evidence of charge from the path of the beam. *What connection did Thomson find between charge and the cathode rays? Was the charge positive or negative?*
2. **Second Experiment:** Thomson tried passing the cathode ray through an electric field. *How did cathode ray beam behave when it passed through an electric field? What did he conclude after his second experiment?*
3. **Third Experiment:** Thomson did some careful measurements on how much the path of the cathode ray was bent in a magnetic field and how much energy they carried. From this work Thomson could describe the mass/charge ratio of the cathode ray particles. *What amazing result did Thomson find?*

**Thomson's Atomic Model:** Thomson presented three hypotheses from his experiments. Only two were accepted by physicists – in fact the third was shown to be wrong! From the first two came a model of the atom known as the *Plum Pudding* model. Complete the atom drawing below to illustrate Thomson's plum pudding model. Explain how this fits with his observations.



<sup>1</sup> <https://www.aip.org/history/exhibits/electron/jjrays.htm>  
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# Modeling Chemistry U6 Test Key

**Marco Cascella**



## **Modeling Chemistry U6 Test Key:**

This book delves into Modeling Chemistry U6 Test Key. Modeling Chemistry U6 Test Key is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Modeling Chemistry U6 Test Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Modeling Chemistry U6 Test Key
    - Chapter 2: Essential Elements of Modeling Chemistry U6 Test Key
    - Chapter 3: Modeling Chemistry U6 Test Key in Everyday Life
    - Chapter 4: Modeling Chemistry U6 Test Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Modeling Chemistry U6 Test Key. The first chapter will explore what Modeling Chemistry U6 Test Key is, why Modeling Chemistry U6 Test Key is vital, and how to effectively learn about Modeling Chemistry U6 Test Key.
  3. In chapter 2, this book will delve into the foundational concepts of Modeling Chemistry U6 Test Key. This chapter will elucidate the essential principles that must be understood to grasp Modeling Chemistry U6 Test Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Modeling Chemistry U6 Test Key in daily life. The third chapter will showcase real-world examples of how Modeling Chemistry U6 Test Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Modeling Chemistry U6 Test Key in specific contexts. This chapter will explore how Modeling Chemistry U6 Test Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Modeling Chemistry U6 Test Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Modeling Chemistry U6 Test Key.

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