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! to find the conclusions that Thomson and other physicists drew regarding the mysterious cathode rays.

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

- 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.



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Modeling Chemistry U6 Ws1 V2 Answers

L Reisser

Modeling Chemistry U6 Ws1 V2 Answers:

This book delves into Modeling Chemistry U6 Ws1 V2 Answers. Modeling Chemistry U6 Ws1 V2 Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Modeling Chemistry U6 Ws1 V2 Answers, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Modeling Chemistry U6 Ws1 V2 Answers
 - o Chapter 2: Essential Elements of Modeling Chemistry U6 Ws1 V2 Answers
 - o Chapter 3: Modeling Chemistry U6 Ws1 V2 Answers in Everyday Life
 - $\circ\,$ Chapter 4: Modeling Chemistry U6 Ws1 V2 Answers in Specific Contexts
 - \circ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Modeling Chemistry U6 Ws1 V2 Answers. This chapter will explore what Modeling Chemistry U6 Ws1 V2 Answers is, why Modeling Chemistry U6 Ws1 V2 Answers is vital, and how to effectively learn about Modeling Chemistry U6 Ws1 V2 Answers.
- 3. In chapter 2, the author will delve into the foundational concepts of Modeling Chemistry U6 Ws1 V2 Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Modeling Chemistry U6 Ws1 V2 Answers in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Modeling Chemistry U6 Ws1 V2 Answers in daily life. The third chapter will showcase real-world examples of how Modeling Chemistry U6 Ws1 V2 Answers can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Modeling Chemistry U6 Ws1 V2 Answers in specific contexts. The fourth chapter will explore how Modeling Chemistry U6 Ws1 V2 Answers is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Modeling Chemistry U6 Ws1 V2 Answers. 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 Ws1 V2 Answers.

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