

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*¹ 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.



Modeling Chemistry U6 Rearrange V2 Answers

Léo Pomar



Modeling Chemistry U6 Rearrange V2 Answers:

Handbook on the Physics and Chemistry of the Actinides, 1984 *Indian Journal of Chemistry*, 1986 **Ordered and Disordered Cubic Systems: Pyrochlore to Fluorite, Now and the Horizon** Gordon James Thorogood, Sarah C. Finkeldei, Maik Kurt Lang, David Simeone, 2022-02-18 Journal of the American Chemical Society American Chemical Society, 1984-05 Features definitive articles and communications as well as book and software reviews covering all areas of chemistry Hydrothermal Mineral Deposits Franco Pirajno, 2012-12-06 This book is intended primarily for exploration geologists and post graduate students attending specialist courses in mineral exploration Exploration geologists are engaged not only in the search for new mineral deposits but also in the extension and re assessment of existing ones To succeed in these tasks the exploration geologist is required to be a generalist of the Earth sciences rather than a specialist The exploration geologist needs to be familiar with most aspects of the geology of ore deposits and detailed knowledge as well as experience play an all important role in the successful exploration for mineral commodities In order to achieve this it is essential that the exploration geologist be up to date with the latest developments in the evolution of concepts and ideas in the Earth sciences This is no easy task as thousands of publications appear every year in an ever increasing number of journals periodicals and books For this reason it is also difficult at times to locate appropriate references on a particular mineral deposit type although this problem is alleviated by the existence of large bibliographic data bases of geological records abstracts and papers on computers During my teaching to explorationists and indeed during my years of work as an explorationist the necessity of having a text dealing with the fundamental aspects of hydrothermal mineral deposits has always been compelling Metallic mineral deposits can be categorised into three great families namely 1 magmatic 2 sedimentary and residual 3 hydrothermal Nuclear Science Abstracts, 1974 Journal of Applied Chemistry, 1963 Vols for 1954 include separately paged section called Abstracts formerly published in British abstracts B I and B II **Journal** American Chemical Society, 2003 *Canadian Journal of Chemistry*, 1998 **Dissertation Abstracts International**, 2009 **Russian Journal of Bioorganic Chemistry**, 1999 *Physics Briefs*, 1993 **Abstracts**, 1989 Directory of Graduate Research, 2001 Faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the United States and Canada *Mineral Deposits of the Erzgebirge/Krušné Hory (Germany/Czech Republic)* Kurt von Gehlen, Dietrich D. Klemm, 1994 **University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles** University of California (System). Institute of Library Research, University of California, Berkeley, 1972 INIS Atomindex, 1995 **Government Reports Announcements & Index**, 1989-07 **Program with Abstracts**, 1997 *Conference Papers Index*, 1979 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as

questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues

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