



The History of the ATOM

Thomsen



This theory led to the "plum pudding" model, in which negative particles are stuck in a positively charged substance.

These tiny atoms, negatively charged particles, inside an atom called electrons.



Bohr



Most of an atom's mass is in the nucleus.

Energy levels are certain distances from the nucleus.

Electrons travel in orbits called energy levels.

20th century

300 BC

1803

1897

1906

1913

Dalton



Atoms of the same element are exactly alike.

Atoms are "uncuttable".

Atoms of different elements are different.



9

Rutherford



Electrons are scattered around the nucleus at a distance.

Atoms contain mostly empty space.

There is a small, dense, positively charged nucleus.



Schrodinger, H. Einstein, and Others



Electrons' locations depend upon how much energy they have.

Electrons move around the nucleus billions of times in one second.

Atomic Theory Timeline project

Atomic Theory Timeline Project Study Guide Questions

Albert A Gayle

Atomic Theory Timeline Project Study Guide Questions:

Multicultural Science Education Mary M. Atwater, Melody Russell, Malcolm B. Butler, 2013-11-19 This book offers valuable guidance for science teacher educators looking for ways to facilitate preservice and inservice teachers pedagogy relative to teaching students from underrepresented and underserved populations in the science classroom. It also provides solutions that will better equip science teachers of underrepresented student populations with effective strategies that challenge the status quo and foster classrooms environment that promotes equity and social justice for all of their science students. Multicultural Science Education illuminates historically persistent yet unresolved issues in science teacher education from the perspectives of a remarkable group of science teacher educators and presents research that has been done to address these issues. It centers on research findings on underserved and underrepresented groups of students and presents frameworks perspectives and paradigms that have implications for transforming science teacher education. In addition the chapters provide an analysis of the socio cultural political consequences in the ways in which science teacher education is theoretically conceptualized and operationalized in the United States. The book provides teacher educators with a framework for teaching through a lens of equity and social justice one that may very well help teachers enhance the participation of students from traditionally underrepresented and underserved groups in science technology engineering and mathematics STEM areas and help them realize their full potential in science. Moreover science educators will find this book useful for professional development workshops and seminars for both novice and veteran science teachers. Multicultural Science Education Preparing Teachers for Equity and Social Justice directly addresses the essential role that science teacher education plays for the future of an informed and STEM knowledgeable citizenry. The editors and authors review the beginnings of multicultural science education and then highlight findings from studies on issues of equity underrepresentation cultural relevancy English language learning and social justice. The most significant part of this book is the move to the policy level providing specific recommendations for policy development implementation assessment and analysis with calls to action for all science teacher educators and very significantly all middle and high school science teachers and prospective teachers. By emphasizing the important role that multicultural science education has played in providing the knowledge base and understanding of exemplary science education. Multicultural Science Education Preparing Teachers for Equity and Social Justice gives the reader a scope and depth of the field along with examples of strategies to use with middle and high school students. These classroom instructional strategies are based on sound science and research. Readers are shown the balance between research based data driven models articulated with successful instructional design. Science teacher educators will find this volume of great value as they work with their pre service and in service teachers about how to address and infuse multicultural science education within their classrooms. For educators to be truly effective in their classrooms they must examine every component of the learning and teaching process. Multicultural Science Education

Preparing Teachers for Equity and Social Justice provides not only the intellectual and research bases underlying multicultural studies in science education but also the pragmatic side All teachers and teacher educators can infuse these findings and recommendations into their classrooms in a dynamic way and ultimately provide richer learning experiences for all students Patricia Simmons North Carolina State University Raleigh USA This provocative collection of chapters is a presentation in gutsiness Ingenious in construction and sequencing this book will influence science teacher educators by introducing them to issues of equity and social justice directly related to women and people of color The authors unflinchingly interrogate issues of equity which need to be addressed in science education courses This provocative collection of chapters is a presentation in gutsiness Ingenious in construction and sequencing this book will influence science teacher educators by introducing them to issues of equity and social justice directly related to women and people of color The authors unflinchingly interrogate issues of equity which need to be addressed in science education courses It begins with setting current cultural and equity issue within a historic frame The first chapter sets the scene by moving the reader through 400 years in which African American s were scientifically excluded from science This is followed by a careful review of the Jim Crow era an analysis of equity issues of women and ends with an examination of sociocultural consciousness and culturally responsive teaching Two chapters comprise the second section Each chapter examines the role of the science teacher in providing a safe place by promoting equity and social justice in the classroom The three chapters in the third section focus on secondary science teachers Each addresses issues of preparation that provides new teachers with understanding of equity and provokes questions of good teaching Section four enhances and expands the first section as the authors suggest cultural barriers the impact STEM engagement by marginalized groups The last section composed of three chapters interrogates policy issues that influence the science classroom Molly Weinburgh Texas Christian University Fort Worth USA

Science after the Practice Turn in the Philosophy, History, and Social Studies of Science Léna Soler,Sjoerd Zwart,Michael Lynch,Vincent Israel-Jost,2014-03-21 In the 1980s philosophical historical and social studies of science underwent a change which later evolved into a turn to practice Analysts of science were asked to pay attention to scientific practices in meticulous detail and along multiple dimensions including the material social and psychological Following this turn the interest in scientific practices continued to increase and had an indelible influence in the various fields of science studies No doubt the practice turn changed our conceptions and approaches of science but what did it really teach us What does it mean to study scientific practices What are the general lessons implications and new challenges This volume explores questions about the practice turn using both case studies and theoretical analysis The case studies examine empirical and mathematical sciences including the engineering sciences The volume promotes interactions between acknowledged experts from different often thought of as conflicting orientations It presents contributions in conjunction with critical commentaries that put the theses and assumptions of the former in perspective Overall the book offers a unique and

diverse range of perspectives on the meanings methods lessons and challenges associated with the practice turn *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 *Research in Education* ,1972
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