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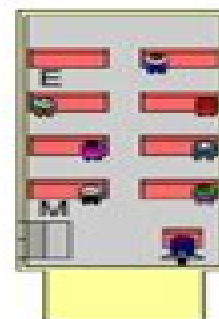
Date: 8-27-2005

Student Exploration: Electron Configuration

Vocabulary: atomic number, atomic radius, Aufbau principle, chemical family, diagonal rule, electron configuration, Hund's rule, orbital, Pauli exclusion principle, period, shell, spin, subshell

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Elvis Perkins, a rather shy fellow, is getting on the bus shown at right. Which seat do you think he will probably sit in? Mark this seat with an "E."
2. Marta Warren gets on the bus after Elvis. She is tired after a long day at work. Where do you think she will sit? Mark this seat with an "M."
3. In your experience, do strangers getting on a bus like to sit with other people if there is an empty seat available? Yes, most look for an empty seat.



Gizmo Warm-up

Just like passengers getting on a bus, electrons orbit the nuclei of atoms in particular patterns. You will discover these patterns (and how electrons sometimes act like passengers boarding a bus) with the *Electron Configuration Gizmo*.

To begin, check that **Lithium** is selected on the PERIODIC TABLE tab.

1. The **atomic number** is equal to the number of protons in an atom.

How many protons are in a lithium atom? 3 protons

2. A neutral atom has the same number of electrons and protons.

How many electrons are in a neutral lithium atom? 4 electrons

atomic number	→	3
Average atomic mass	→	6.94

	3	4	5	6	7	8
Sc	Ti	V	Cr	Mn	Fe	
Y	Zr	Nb	Mo	Tc	Ru	
Lr	Hf	Ta	W	Re	Os	

3. Select the **ELECTRON CONFIGURATION** tab, and check that **Energy** is selected. Click twice in the **1s** box at lower left and once in the **2s** box. Observe the atom model at right.

A. What do you see? There are two electrons orbiting around the atom.

Explore Learning Student Exploration Electron Configuration

Michael Brown



Explore Learning Student Exploration Electron Configuration:

Challenging e-Learning in the University Robin Goodfellow, Mary Lea, 2007-10-16 Informed by an intimate knowledge of a social literacies perspective this book is full of profound insights and unexpected connections Its scholarly clear eyed analysis of the role of new media in higher education sets the agenda for e learning research in the twenty first century Ilana Snyder Monash University This book offers a radical rethinking of e learning The authors challenge teachers course developers and policy makers to see e learning environments as textual practices rooted deeply in the social and intellectual life of academic disciplines This approach holds great promise for moving e learning past its focus on technology and the learner toward vital engagement with fields of inquiry through texts Professor David Russell Iowa State University *Challenging e learning in the University* takes a new approach to the growing field of e learning in higher education In it the authors argue that in order to develop e learning in the university we need to understand the texts and practices that are involved in learning and teaching using online and web based technologies The book develops an approach which draws together social and cultural approaches to literacies learning and technologies illustrating these in practice through the exploration of case studies It is key reading for educational developers who are concerned with the promises offered but rarely delivered with each new iteration of learning with technologies It will also be of interest to literacies researchers and to HE policy makers and managers who wish to understand the contexts of e learning

IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 1992 Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

From Gutenberg to the Internet Jeremy M. Norman, 2005 *From Gutenberg to the Internet* presents 63 original readings from the history of computing networking and telecommunications arranged thematically by chapters Most of the readings record basic discoveries from the 1830s through the 1960s that laid the foundation of the world of digital information in which we live These readings some of which are illustrated trace historic steps from the early nineteenth century development of telegraph systems the first data networks through the development of the earliest general purpose programmable computers and the earliest software to the foundation in 1969 of ARPANET the first national computer network that eventually became the Internet The readings will allow you to review early developments and ideas in the

history of information technology that eventually led to the convergence of computing data networking and telecommunications in the Internet The editor has written a lengthy illustrated historical introduction concerning the impact of the Internet on book culture It compares and contrasts the transition from manuscript to print initiated by Gutenberg s invention of printing by moveable type in the 15th century with the transition that began in the mid 19th century from a print centric world to the present world in which printing co exists with various electronic media that converged to form the Internet He also provided a comprehensive and wide ranging annotated timeline covering selected developments in the history of information technology from the year 100 up to 2004 and supplied introductory notes to each reading Some introductory notes contain supplementary illustrations Mobile, Ubiquitous, and Pervasive Learning Alejandro Peña Ayala,2015-12-12 This book is concerned with the mobile ubiquitous and pervasive learning arena It present a collection of works corresponding to four categories reviews studies conceptual proposals and approaches As a result of the submission and revision processes eight manuscripts were accepted and organized into the aforementioned four parts as follows Review a couple of chapters offer a survey of related works One concerns with the diversity of mobile ubiquitous and pervasive labor where interested findings are unveiled based on correlations Other focuses on adaptive and adaptable architectures that are suitable to implement ubiquitous learning sceneries whose contribution represents a model of a domain specific architecture Studies two chapters explore issues related to the effect of question styles made through smartphones and tablets and the disposition of teachers to exploit mobile devices at classroom Conceptual a pair of chapters offer a given proposal the first to develop adaptive mobile learning systems by means of a framework based on contextual information and the second with the purpose to share some guidelines of how to apply cloud computing in the development and operation of mobile Approaches two chapters apply a specific paradigm as part of a whole application and reveal the achieved impact One of them uses augmented reality to encourage children to learn about trees as context sensitive informal learning The other immerses children in playing a learning game to learn math by cooperating between members team and interacting through mobile devices This volume will be a source of interest for researchers practitioners professors and postgraduate students aimed at updating their knowledge and finding targets for future work in the mobile ubiquitous and pervasive learning field

Research on Teaching Strategies and Skills in Different Educational Stages Pedro Gil-Madrone, Linda Saraiva, Luisa Losada-Puente,2025-03-19 The teaching practice becomes a reciprocal activity in the classroom when teachers apply their creativity and their knowledge resulting from research and scientific evidence in the didactic teaching process with the purpose of strengthening in the students the key competencies of their training turning students at the core of the didactic process Teaching strategies must be articulated from previous research and planning and designed sequentially to promote real and interesting learning scenarios and thereby achieve significant learning From this perspective of teaching learning strategies the reciprocal interaction between the student and the teacher becomes the focus of attention with a playful

motivating interesting and rewarding approach for the learner The role of the teacher is conceived as fundamental in the teaching process to achieve the link between teaching learning and evaluation strategies For this reason multidisciplinary studies are welcome from all stages of the educational system with quantitative qualitative and mixed approaches and reviews promoting good teaching practices of reflection and innovation from these studies

Instructional Development Paradigms Charles R. Dills,A. J. Romiszowski,1997 An encyclopedic examination of competing paradigms in the areas of instructional design and development at all levels and in a variety of environments The 46 treatments feature the analysis of experienced scholars and sometimes the authors of the particular theories under discussion which include topics in instructional development in its philosophical mode constructivism postmodernism systems approach as a cultural vantage point and in theory and application reviewing the effects of technology on class design the influences of semiotics the strategic advantages of constructivist instruction versus linear designs and modeling for applying design strategies from constructivism and cognitive theory to individualizing instruction with adult learners Annotation copyrighted by Book News Inc Portland OR

Resources in Education ,1998 Scientific and Technical Aerospace Reports ,1995 *The Software Encyclopedia 2000* Bowker Editorial Staff,2000-05 Advances in Web-based Education George D. Magoulas,Sherry Y. Chen,2006-01-01 This book provides coverage of a wide range of factors that influence the design use and adoption of Personalized Learning Environments Provided by publisher

Understanding Media, Today Matteo Ciastellardi,Emanuela Patti,2011-12-01 Understanding Media Today McLuhan in the Era of Convergence Culture *Bowker's Complete Video Directory* ,2000 *Cognitive infocommunications* Anna Esposito,Gennaro Cordasco,Carl Vogel,Péter Baranyi,2023-06-21

Notes Music Library Association,1990 Mathematics/science Education and Technology, 1994 Gary H. Marks,1994

Instructor ,1990-08 **Resources in Education** ,1997 **New York Magazine** ,1993-03-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

Bulletin of the Atomic Scientists ,1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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