

# Chemistry Study Guide

Periodic Table of the Elements

1	2											3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H	He																							He		
2	Li	Be											B	C	N	O	F	Ne									
3	Na	Mg											Al	Si	P	S	Cl	Ar									
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr									
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe									
6	Cs	Ba			Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn								
7	Fr	Ra			Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo								
			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu										
			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr										

## Objective:

To understand the *structure of an atom*, and the *nature + properties* of subatomic particles 🎯

## Matter:

Anything that has **mass** and **occupies space** ✨🌍

Examples: air, gases, liquids, solidz!

## Atoms:

Atoms are the **smallest, indivisible particle** 🔬👉

- **Outer part** → *shell/orbit/energy level* → carries the electrons ( $e^-$ )
- **Inner part** → *nucleus* → houses the protons ( $p^+$ ) and neutrons ( $n$ )
- Outer & Inner part → together these are the **subatomic particles**

## Subatomic Particle Table:

Particle	Symbol	Mass (amu)	Charge	Location
Proton	$p^+$	1	+1	Nucleus
Neutron	$n$	1	0	Nucleus
Electron	$e^-$	$\sim 0$	-1	Orbit/Shell

# Chemistry Study Guide Spring 2013

**Emilie Sanchez**



## **Chemistry Study Guide Spring 2013:**

2013 Spring International Conference on Material Sciences and Technology (MST-S) Yue Li, 2013-06-13 Selected peer reviewed papers from the 2013 Spring International Conference on Material Sciences and Technology MST S May 31 June 2 2013 Wuhan China A Guide to Teaching in the Active Learning Classroom Paul Baeppler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2013-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed The importance of learning how to use these classrooms well and to capitalize on their special features is paramount The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls This book provides an introduction to ALCs briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical guidance on how to use these unfamiliar spaces effectively Among the questions this book addresses are How can instructors mitigate the apparent lack of a central focal point in the space What types of learning activities work well in the ALCs and take advantage of the affordances of the room How can teachers address familiar classroom management challenges in these unfamiliar spaces If assessment and rapid feedback are critical in active learning how do they work in a room filled with circular tables and no central focus point How do instructors balance group learning with the needs of the larger class How can students be held accountable when many will necessarily have their backs facing the instructor How can instructors evaluate the effectiveness of their teaching in these spaces This book is intended for faculty preparing to teach in or already working in this new classroom environment for administrators planning to create ALCs or experimenting with provisionally designed rooms and for faculty developers helping teachers transition to using these new spaces

Mobile Learning in Higher Education in the Asia-Pacific Region Angela Murphy, Helen Farley, Laurel Evelyn Dyson, Hazel Jones, 2017-07-06 If mobile technologies are to be effectively used in education how do we best implement sustainable mobile solutions for teaching and learning The aim of this handbook is to support educators and policy makers who are investing in innovations in digital education to develop effective and sustainable mobile learning solutions for higher education environments Authors from sixteen countries across the Asia Pacific region have collaborated to share their experiences with developing and implementing mobile learning initiatives These projects focus on a variety of aspects of mobile learning innovation from the trial adoption of existing social media platforms on mobile devices and the development of specialised applications or mobile learning systems to the large scale interuniversity implementation of technologies and pedagogies to support mobile learning Each chapter addresses challenges and solutions at one or more levels of mobile learning innovation within the education system encompassing the student perspective the educator perspective technical processes policies and

organisational strategy and leadership The book also offers a unique perspective on the integration of mobile learning innovations within the educational political and cultural environments of Asia Pacific countries **Journal of the First-year Experience & Students in Transition** ,2016 *Handbook of Astrobiology* Vera M. Kolb,2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead Specifications Grading Linda B. Nilson,2023-07-03 In her latest book Linda Nilson puts forward an innovative but practical and tested approach to grading that can demonstrably raise academic standards motivate students tie their achievement of learning outcomes to their course grades save faculty time and stress and provide the reliable gauge of student learning that the public and employers are looking for She argues that the grading system most commonly in use now is unwieldy imprecise and unnecessarily complex involving too many rating levels for too many individual assignments and tests and based on a hairsplitting point structure that obscures the underlying criteria and encourages students to challenge their grades This new specifications grading paradigm restructures assessments to streamline the grading process and greatly reduce grading time empower students to choose the level of attainment they want to achieve reduce antagonism between the evaluator and the evaluated and increase student receptivity to meaningful feedback thus facilitating the learning process all while upholding rigor In addition specs grading increases students motivation to do well by making expectations clear lowering their stress and giving them agency in determining their course goals Among the unique characteristics of the schema all of which simplify faculty decision making are the elimination of partial credit the reliance on a one level grading rubric and the bundling of assignments and tests around learning outcomes Successfully completing more challenging bundles or modules earns a student a higher course grade Specs grading works equally well in small and large class settings and encourages authentic assessment Used consistently over time it can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve This book features many examples of courses that faculty have adapted to spec grading and lays out the surprisingly simple transition process It is intended for all members of higher education who teach whatever the discipline and regardless of rank as well as those who oversee train and advise those who teach Specification

grading promotes the following values and outcomes It 1 Upholds High Academic Standards2 Reflects Student Attainment of Skills and Knowledge 3 Motivates Students to Learn and to Excel4 Fosters Higher Order Cognitive Development and Creativity5 Discourages Cheating6 Reduces Student Stress7 Makes Students Feel Responsible for Their Grades8 Minimizes Conflict Between Faculty and Students9 Saves Faculty Time and Is Simple to Administer10 Makes Expectations Clear and Simplifies Feedback for Improvement11 Assesses Authentically12 Achieves High Inter Rater Agreement

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Group relied mainly on epidemiological studies to evaluate the carcinogenic hazard to humans exposed to the drugs digoxin widely prescribed for the treatment of chronic heart failure pioglitazone used for the treatment of type 2 diabetes mellitus and hydrochlorothiazide used to treat hypertension Other agents evaluated included the drugs primidone sulfasalazine pentosan polysulfate sodium and triamterene and five herbal products or their components Aloe vera whole leaf extract goldenseal root powder Ginkgo biloba leaf extract kava extract and pulegone In view of the limited agent specific information available from epidemiological studies assessments of these agents relied mainly on carcinogenicity bioassays to reach conclusions as to the carcinogenic hazard to exposed humans **Journal of Technology Education** ,2012 National Recreational, Sporting, and Hobby Organizations of the United States ,1984 **The Graduate School Bulletin** Oregon State University. Graduate School,1968 **Coal and Coal Trade Journal** ,1925 *Medical Books and Serials in Print* ,1983

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