

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, solids!

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^-	$\frac{1}{1836}$	-1	Orbit/Shell

Modern Chemistry Study Guide

M Mark



Modern Chemistry Study Guide:

Holt Modern Chemistry, 2006 *Holt Mcdougal Modern Chemistry Texas* Hart Mcdougal, 2014-01-01 **Principles of Modern Chemistry** Wade A. Freeman, David W. Oxtoby, 1996 PRINCIPLES OF MODERN CHEMISTRY has dominated the honors and high mainstream general chemistry courses and is considered the standard for the course The fifth edition is a substantial revision that maintains the rigor of previous editions but reflects the exciting modern developments taking place in chemistry today Authors David W Oxtoby and H P Gillis provide a unique approach to learning chemical principles that emphasizes the total scientific process from observation to application placing general chemistry into a complete perspective for serious minded science and engineering students Chemical principles are illustrated by the use of modern materials comparable to equipment found in the scientific industry Students are therefore exposed to chemistry and its applications beyond the classroom This text is perfect for those instructors who are looking for a more advanced general chemistry textbook

Organic Chemistry Study Guide and Solutions Manual Marc Loudon, Jim Parise, Lisa Bonner, 2024-08-09 The Study Guide and Solutions Manual offers several study tools for students Study Guide Links are brief supplements to text material and provide hints for study shortcuts approaches to problem solving or additional explanations of topics that typically cause difficulty Further Explorations are short discussions that provide additional depth on content in the text Reaction Reviews present the reactions in the chapter in detailed outline form This summary consolidates the reactions of the chapter in one place and presents not only the reactions themselves but also the essential features of their mechanisms and stereochemistry for cases in which these issues are discussed in the text Solutions are provided for all of the over 1600 problems in the text Many include worked out examples in which not only the answer is given but also the detailed approach to the solution is discussed

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general chemistry into a complete perspective for serious minded science and engineering students Chemical principles are illustrated by the use of modern materials comparable to equipment found in the scientific industry Students are therefore exposed to chemistry and its applications beyond the classroom This text is perfect for those instructors who are looking for a more advanced general chemistry textbook

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