



آغا خان یونیورسٹی ایگزامینیشن بورڈ
AGA KHAN UNIVERSITY EXAMINATION BOARD

Teaching and Learning Resources for Grade XI Chemistry

Recommended Key Textbook:

Chemistry for Grade 11, National Book Foundation, Islamabad

Additional Recommended Resource Material				
Topic No.	Topic Title.	Reference Book	Topic in the Reference Book	Website
1	Stoichiometry	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 1: Basic Concepts	http://www.usetute.com.au/index.html/
		E. N. Ramsden, <i>A-level Chemistry</i> , Stanley Thornes (Publishers) Ltd.	Unit 3: Equations and Equilibria	
		Christopher N. Prescott, <i>Chemistry, A Course for 'O' Level</i> , Federal Publications.	Unit 8: The Mole	
2	Atomic Structure	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 5: Atomic Structure	http://www.usetute.com.au/index.html/ https://www.chemguide.co.uk
3	Theories of Covalent Bonding And Shapes of Molecules	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 6: Chemical Bonding	https://www.chemguide.co.uk

Topic No.	Topic Title.	Reference Book	Topic in the Reference Book	Website
4	States of Matter I: Gases	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 3: Gases	http://www.ausetute.com.au/index.html/
		Michael Clugston and Rosalind Flemming, <i>Advanced Chemistry</i> , Oxford University Press.	Unit 8: Gases	
		Roger Norris, Lawrie Ryan and David Acaster, <i>Chemistry Coursebook</i> , Cambridge University Press.	Unit 5: States of matter	
5	States of Matter II: Liquids	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 4: Liquids and Solids	
		Michael Clugston and Rosalind Flemming, <i>Advanced Chemistry</i> , Oxford University Press.	Unit 7: Changes of states and intermolecular forces	
		Roger Norris, Lawrie Ryan and David Acaster, <i>Chemistry Coursebook</i> , Cambridge University Press.	Unit 4: Chemical bonding	
6	States of Matter III: Solids	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 4: Liquids and Solids	
		<i>Chemistry for Class XI</i> , Sindh Textbook Board, Jamshoro.	Unit 2: The three states of matter Gases, Liquids and Solids	

Topic No.	Topic Title.	Reference Book	Topic in the Reference Book	Website
7	Chemical Equilibrium	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 8: Chemical Equilibrium	http://www.usetute.com.au/index.html/ https://www.chemguide.co.uk
8	Acids, Bases and Salts	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 8: Chemical Equilibrium	http://www.usetute.com.au/index.html/ https://www.chemguide.co.uk
9	Chemical Kinetics	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 11: Reaction Kinetics	http://www.usetute.com.au/index.html/ https://www.chemguide.co.uk
10	Solution and Colloids	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 9: Solutions	http://www.usetute.com.au/index.html/
11	Thermochemistry	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 7: Thermochemistry	http://www.usetute.com.au/index.html/
12	Electrochemistry	<i>Chemistry for Class XI</i> , Punjab Textbook Board, Lahore.	Unit 10: Electrochemistry	http://www.usetute.com.au/index.html/

Note: This resource list has been prepared primarily for teachers. While it can be shared with students, students should not be required to buy multiple books. Schools are encouraged to stock these books in the library. Moreover, these are only suggestions which have been compiled for the ease of teachers and students; schools are encouraged to use other resources for teaching and learning as well, as long as they are in line with the student learning outcomes (SLOs) mentioned in AKU-EB syllabi. Unless specified, AKU-EB does not endorse any of these books or websites. You are advised to use an ad-blocker while accessing the websites. In case any website is not functional for any reason, you may inform us at examination.board@aku.edu for an alternative or search material via any search engine. If you have any query, please contact us via email.



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Teaching and Learning Resources for Grade XII Chemistry

Recommended Key Textbook:

Chemistry for Grade 12, National Book Foundation, Islamabad

Additional Recommended Resource Material				
Topic No.	Topic Title	Reference Book	Topic in the Reference Book	Website
13	s-and p-Block Elements	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 2: s-Block Elements Unit 3: Group IIIA and Group IVA Elements Unit 5: The halogens and the noble gases	https://www.chemguide.co.uk
		Philip Mathews, <i>Advanced Chemistry (Physical and Industrial)</i> Cambridge University Press.	Part C Inorganic Chemistry	
14	d- and f- Block Elements	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 6: Transition Element	https://www.chemguide.co.uk
		Philip Mathews, <i>Advanced Chemistry (Physical and Industrial)</i> Cambridge University Press.	Part C Inorganic Chemistry	

Topic No.	Topic Title.	Reference Book	Topic in the Reference Book	Website
15	Organic Compounds	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 7: Fundamental Principles of Organic Chemistry	https://www.chemguide.co.uk
16	Hydrocarbons	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 8: Aliphatic hydrocarbons Unit 9: Aromatic hydrocarbons	https://www.chemguide.co.uk
17	Alkyl Halides and Amines	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 10: Alkyl Halides	https://www.chemguide.co.uk
18	Alcohols, Phenols and Ethers	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 11: Alcohols, Phenols and Ethers	https://www.chemguide.co.uk
19	Carbonyl Compound 1. Aldehydes and Ketones	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 12: Aldehydes and Ketones	https://www.chemguide.co.uk
20	Carbonyl Compound 2. Carboxyl Acid and Functional Derivative	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 13: Carboxylic Acids	https://www.chemguide.co.uk
21	Biochemistry	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 14: Macromolecules	http://www.usetute.com.au/index.html/
22	Industrial Chemistry	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore.	Unit 14: Macromolecules	
23	Environmental Chemistry	<i>Chemistry for Class XII</i> , Punjab Textbook Board, Lahore	Unit 16: Environmental Chemistry	
24	Analytical Chemistry	Fracnis A. Carey, <i>Organic Chemistry</i> , The McGraw-Hill Companies.	Unit 13: Spectroscopy	

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