

TPS-DRC/JTC

Class 9 – Syllabus & Learning Resource

Subject	Chemistry	Syllabus Till	
Syllabus: chapter# 1,2, 3,5			
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	Reading Material Reference
1	Empirical formula	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-19	Chemistry book, Punjab text book board. Page #12
	Empirical formula-covalent and ionic compound	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-20	Chemistry book, Punjab text book board. Page #12
	Molecular formula	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-21	Chemistry book, Punjab text book board. Page# 13
	Molecular mass Formula mass Determining Molar Mass and Empirical Formula of Compounds	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-22 https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-23 https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.2&v=c-9-10-fun-chem-p-1	Chemistry book, Punjab text book board. Page# 13 Chemistry book, Punjab text book board. Page# 13, 14
1	Ions,cation-anion	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.3&v=c-9-10-fun-chem-24	Chemistry book, Punjab text book board. Page # 14, 15
	Molecular ions	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.3&v=c-9-10-fun-chem-25	Chemistry book, Punjab text book board. Page # 15
	Free radical	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.3&v=c-9-10-fun-chem-26	Chemistry book, Punjab text book board. Page # 15, 16

	Types of molecules	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.3&v=c-9-10-fun-chem-27	Chemistry book, Punjab text book board. Page # 16
	Gram Atomic mass ,Gram molecular mass, Gram formula mass	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.4&v=c-9-10-fun-chem-28	Chemistry book, Punjab text book board. Page # 17
	Avogadro's Number	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.5&v=c-9-10-fun-chem-29	Chemistry book, Punjab text book board. Page # 17, 18
	Mole	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.5&v=c-9-10-fun-chem-30	Chemistry book, Punjab text book board. Page #18
	Calculating Moles from Mass	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.5&v=c-9-10-fun-chem-p-3	Chemistry book, Punjab text book board. Page # 19
	Calculating Mass from Moles	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.5&v=c-9-10-fun-chem-p-4	Chemistry book, Punjab text book board. Page # 19, 20
1	Chemical calculation Mole-Mass Calculations	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-31	Chemistry book, Punjab text book board. Page # 20, 21
	Mole-Particle Calculations	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-32	Chemistry book, Punjab text book board. Page # 21
	Calculating Mass in Grams of a Single Atom	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-p-6	Chemistry book, Punjab text book board. Page # 22
	Calculating Number of Ions in the Compounds	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-p-7	Chemistry book, Punjab text book board. Page # 22
	Calculating Number of Particles from Mass	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-p-8	Chemistry book, Punjab text book board. Page # 22
	Calculating Mass and Moles of an Element from a Compound	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-1.6&v=c-9-10-fun-chem-p-9	Chemistry book, Punjab text book board. Page # 22
2	2.1: Theories and Experiments	https://sabaq.pk/video-page.php?	Chemistry book, Punjab text

	Related to Structure of Atom Dalton's Atomic Theory	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-1	book board. Page # 27, 28
	Discovery of Electron (Cathode rays)	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-2	Chemistry book, Punjab text book board. Page # 28
	Properties of Cathode ray	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-3	Chemistry book, Punjab text book board. Page # 29
	Discovery of Proton	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-4	Chemistry book, Punjab text book board. Page # 29
	Properties of positive rays	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-5	Chemistry book, Punjab text book board. Page # 30
	Discovery of Neutron	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-6	Chemistry book, Punjab text book board. Page # 30
	Properties of Neutron	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-7	Chemistry book, Punjab text book board. Page # 30
	Rutherford's Atomic Model	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-8	Chemistry book, Punjab text book board. Page # 31
	Advantages and Defects in Rutherford's Atomic Model	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-9	Chemistry book, Punjab text book board. Page # 32
	Bohr's Atomic Theory	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.1&v=c-9-10-ato-str-10	Chemistry book, Punjab text book board. Page # 33
	2.2: Electronic Configuration Electronic configuration	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.2&v=c-9-10-ato-str-13	Chemistry book, Punjab text book board. Page # 34, 35
	More on Electronic configuration	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.2&v=c-9-10-ato-str-14	Chemistry book, Punjab text book board. Page # 35, 36
	Give Name and Symbol for the Elements	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.2&v=c-9-10-ato-str-p-1	Chemistry book, Punjab text book board. Page # 37
	Electronic Configuration of Different Species	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.2&v=c-9-10-ato-str-p-2	Chemistry book, Punjab text book board. Page # 37
2	2.3: Isotopes Isotopes	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.3&v=c-9-10-ato-str-15	Chemistry book, Punjab text book board. Page # 38

	Isotopes of Carbon, Chlorine and Uranium	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.3&v=c-9-10-ato-str-17	Chemistry book, Punjab text book board. Page # 39
	Uses of Isotopes	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-2.3&v=c-9-10-ato-str-16	Chemistry book, Punjab text book board. Page # 40
3	3.1: Periodic Table Introduction to Periodic Law And Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-1	Chemistry book, Punjab text book board. Page # 44
	Dobereiner's Triads Classification	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-2	Chemistry book, Punjab text book board. Page # 45
	Newland's Octaves Law	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-3	Chemistry book, Punjab text book board. Page # 45
	Lothar Meyer's Classification	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-4	Chemistry book, Punjab text book board. page # 45
	Mendeleev's Periodic table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-5	Chemistry book, Punjab text book board. Page # 45
	Advantages of Mendeleev's Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-6	Chemistry book, Punjab text book board. Page # 45
	Defects in Mendeleev's Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-7	Chemistry book, Punjab text book board. Page # 45
	Modern Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-8	Chemistry book, Punjab text book board. Page # 46, 47, 48
	Periods in Modern Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-10	Chemistry book, Punjab text book board. Page # 49
	Groups in Modern Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-9	Chemistry book, Punjab text book board. Page # 50
	Comparison Between Mendeleev's and Modern Periodic Tables	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.1&v=c-9-10-per-tab-11	Chemistry book, Punjab text book board. Page #50
	Periodicity of Properties	https://sabaq.pk/video-page.php?	Chemistry book, Punjab text

Atomic Size and Atomic Radius	sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-12	book board. Page # 51
Trend of Atomic Size and Atomic Radius in Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-13	Chemistry book, Punjab text book board. Page # 52
Shielding Effect	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-14	Chemistry book, Punjab text book board. Page # 52
Trend of Shielding Effect in Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-15	Chemistry book, Punjab text book board. Page # 52
Ionization Energy	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-16	Chemistry book, Punjab text book board. Page # 53
Trend of Ionization Energy in Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-17	Chemistry book, Punjab text book board. Page # 53
Electron Affinity	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-18	Chemistry book, Punjab text book board. Page # 53, 54
Trend of Electron Affinity in Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-19	Chemistry book, Punjab text book board. Page # 54
Electronegativity	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-20	Chemistry book, Punjab text book board. Page # 54
Trend of Electronegativity in Periodic Table	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-3.2&v=c-9-10-per-tab-21	Chemistry book, Punjab text book board. Page # 55

Unit 5	Gaseous State and Typical Properties Common States of Matter(solid, liquid ,gas plasma)	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.1&v=c-9-10-phy-sta-1	Chemistry Textbook (Page # 76)
	Diffusion Effusion in Gases	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.1&v=c-9-10-phy-sta-3	Chemistry Textbook (Page # 76)
	Pressure and Standard Atmospheric Pressure	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.1&v=c-9-10-phy-sta-4	Chemistry Textbook (Page # 76, 77)
	Compressibility,Mobility,Density of Gases	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.1&v=c-9-10-phy-sta-5	Chemistry Textbook (Page # 77)
	Laws Related to Gases Boyle's Law of Gases	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.2&v=c-9-10-phy-sta-6	Chemistry Textbook (Page # 78)
	Experimental Verification of Boyle's Law	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.2&v=c-9-10-phy-sta-7	Chemistry Textbook (Page # 78, 79)
	Charles's Law	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.2&v=c-9-10-phy-sta-8	Chemistry Textbook (Page # 81)
	Experimental Verification of Charles's Law	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.2&v=c-9-10-phy-sta-9	Chemistry Textbook (Page # 82)
	Intermolecular Forces	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.2&v=c-9-10-che-bon-14	Chemistry Textbook (Page # 84)
	Liquid State and Typical Properties Evaporation in Liquids and its Uses	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.3&v=c-9-10-phy-sta-10	Chemistry Textbook (Page # 84, 85)
	Vapour Pressure	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.3&v=c-9-10-phy-sta-11	Chemistry Textbook (Page # 85, 86)
	Boiling Points of Liquids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.3&v=c-9-10-phy-sta-12	Chemistry Textbook (Page 86, 87)
	Diffusion in Liquids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.3&v=c-9-10-phy-sta-13	Chemistry Textbook (Page # 88)
	Density Freezing points of Liquids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.3&v=c-9-10-phy-sta-14	Chemistry Textbook (Page # 88,89)
	Solid State and Typical Properties Melting point of Solids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.4&v=c-9-10-phy-sta-15	Chemistry Textbook (Page # 89)

	Rigidity		
	Density in Solids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.4&v=c-9-10-phy-sta-17	Chemistry Textbook (Page # 90)
	Types of Solids Amorphous Solids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.5&v=c-9-10-phy-sta-18	Chemistry Textbook (Page # 90)
	Crystalline Solids	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.5&v=c-9-10-phy-sta-19	Chemistry Textbook (Page # 90)
	Allotropy Concept of Allotropy	https://sabaq.pk/video-page.php?sid=punjab-chemistry-9th-5.6&v=c-9-10-phy-sta-20	Chemistry Textbook (Page # 90, 91)