Start Date: 06-Sep-21

	Week Number	Week Commencing Date	Торіс	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Atoms, elements and molecules			Formulae, Equations and Amount of	
		06-Sep-21	Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Writing chemical equations	00/00/04	42.00.42.40	Substance - Part 1	
	1		Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Reactions of acids	09/09/21	12:00-12:40	Formulae, Equations and Amount of	
Year 1			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Displacement reactions			Substance - Part 2	
	2 13-5		Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Precipitation reactions			Formulae, Equations and Amount of	
		13-Sep-21	Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Moles and masses	16/09/21	12:00-12:40	Substance - Part 3	
	2	15 30 \$ 21	Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Reacting masses	10/09/21	12.00-12.40		
			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Percentage yield				
			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Atom economy			Formulae, Equations and Amount of	
	3	20-Sep-21	Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Empirical and molecular formulae	22/00/21	12:00 12:40	Substance - Part 4	
	3	20-3eρ-21	Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Concentration	23/09/21	12:00-12:40	Formulae, Equations and Amount of	
			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Gas volumes			Substance - Part 5	

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	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Measurement of the molar volume of a gas - Practical			Atomic structure and the periodic	
	4		Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Stucture of atoms and isotopes	30/09/21	12:00-12:40	table - Part 1	
	4		Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Mass spec	30/03/21	12.00-12.40		
			Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Orbitals				
			Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Ionisation energies			Atomic structure and the periodic	
	5		Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	The periodic table	07/10/21	12:00 12:40	table - Part 2	
	3	04-Oct-21	Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Periodic properties	07/10/21 12:00-12:40 ties	12.00 12.40		
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Ionic bonding			Bonding and structure - Part 1	
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Ionic radii and polarisation				
	6		Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Physical properties	14/10/21	12,00 12,40		
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Covalent bonding	14/10/21	12:00-12:40	Bonding and structure - Part 2	
	St	Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Electronegativity and bond polarity			bonding and structure - Part 2		

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	Week Number	Week Commencing Date	Торіс	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Simple molecules				
	7	10.0 + 21	Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Dative bonds	24 /40 /24			
	7	18-Oct-21	Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Shapes of molecules	21/10/21			
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Polar and non-polar molecules			Bonding and structure - Part 3	
ĺ				Holiday 25/1	.0/21 - 31/10/21				
			Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Metallic bonding	04/11/21		Bonding and structure - Part 4	
	o	8 01-Nov-21	Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Solid lattices		12:00-12:40	Bolluling and Structure - rait 4	
	0		Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Intro to organic chemistry		12.00-12.40	Introductory Organic Chemistry and	
			Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Types of formulae			Alkanes - Part 1	
			Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Homologous series and functional groups				
	0	08 Nov 24	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Nomenclature	11/11/24	12,00 12:40		
	9	08-Nov-21	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Structural isomers	11/11/21	12:00-12:40		
		s	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Types of reactions				

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	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Hazards				
	10	15-Nov-21	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Alkane from crude oil	18/11/21	12:00-12:40		
		15-1100-21	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Alkanes as fuel	10/11/21	12.00-12.40	Introductory Organic Chemistry and	
			Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Alternative fuels			Alkanes - Part 2	
			Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Substitution reactions			Introductory Organic Chemistry and	
	11	22-Nov-21	Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Bonding	25/11/21	12:00-12:40	Alkanes	
			Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Geometric isomerism	23/11/21		Alkenes - Part 1	
			Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Addition reactions			Aixeles - Fatt I	
			Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Mechanisms			Alkenes - Part 2	
	12	29-Nov-21	Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Polymerisation reactions	02/12/21			
	12 29-1	29-NOV-21	Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Polymer waste	02/12/21	12:00-12:40		
			Structure, Bonding and Introduction to Organic Chemistry		End of Unit				
	13	06-Dec-21	Structure, Bonding and Introduction	on to Organic Chemistry	End of Unit	09/12/21	12:00-12:40		End of unit
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00	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Session Time	Notes	Tutor Marked
		14 13-Dec-21	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Introduction			Energetics - Part 1	
	14		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Enthalpy	16/12/21	12:00-12:40	Energetics Ture I	
	14		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Enthalpy level diagrams	10/12/21		Energetics - Part 2	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Combustion, neutralisation and formation			Lifeigetics - Part 2	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Hess's law	_		Energetics - Part 3	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Bond Enthalpies			Energetics Tures	
	15	10-Jan-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Determination of the enthalpy change of a reaction using Hess's Law Practical	13/01/22	12:00-12:40	Intermolecular forces	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Intermolecular forces	Intermolecular interactions				

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00	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Intermolecular forces	Properties			Redox Chemistry and Groups 1, 2 and	
	46			Redox Chemistry and Groups 1, 2 and 7	Electrons	20/01/00	42.00.42.40	7 - Part 1	
	16	.6 17-341-22		Redox Chemistry and Groups 1, 2 and 7	Oxidation number	20/01/22	12:00-12:40		
				Redox Chemistry and Groups 1, 2 and 7	Nomenclature				
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols Redox Chemistry and Groups 1, 2 and 7 Full ionic equations			Redox Chemistry and Groups 1, 2 and			
	17			Redox Chemistry and Groups 1, 2 and 7	Trends in groups 1 & 2		12:00-12:40	7 - Part 2	
	17			Redox Chemistry and Groups 1, 2 and 7	Group 1 reactions		12.00 12.40		
				Redox Chemistry and Groups 1, 2 and 7	Group 2 reactions				

	September 21 make								
	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Oxides and hydroxides				
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Thermal stability				
	18	31-Jan-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Flame tests	03/02/22	2 12:00-12:40		
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Finding the concentration of a solution of hydrochloric acid _ Practical				
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Preparation of a standard solution from a solid acid and use it to find the concentration of a solution of sodium hydroxide Practical			Redox Chemistry and Groups 1, 2 and 7 - Part 3	
	19	07-Feb-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Trends in group 7	10/02/22	12:00-12:40		
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Halides reactions			Redox Chemistry and Groups 1, 2 and	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Redox Chemistry and Groups 1, 2 and 7	Making standard solutions			7 - Part 4	
				Holiday 14/2/22 -2	0/02/22				

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	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
				Redox Chemistry and Groups 1, 2 and 7	Titrations				
	20		• • • • • • • • • • • • • • • • • • • •	· ·	Errors, precision, accuracy	24/02/22	12:00-12:40		
	20		0 , 1 ,,	Introduction to Kinetics and Equilibria	Reaction rates			Introduction to Kinetics and Equilibria - Part 1 Introduction to Kinetics and Equilibria	
			0 , 1 ,,	Introduction to Kinetics and Equilibria	factors				
			- 0 //	Introduction to Kinetics and Equilibria	revisible reactions	02/02/02			
	21		- 0 //	Introduction to Kinetics and Equilibria	Conditions		/03/22 12:00-12:40	- Part 2	
	21		0 , 1 , ,		Reversible reactions in industry	03/03/22			
			Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	General principles			Organic Chemistry: Halogenoalkanes, Alcohols and Spectra - Part 1	

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	Week Number	Week Commencing Date	Торіс	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Hydroylsis reactions			Organic Chemistry: Halogenoalkanes,	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Mechanisms			Alcohols and Spectra - Part 2	
	22	07-Mar-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Investigation of the rates of hydrolysis of some halogenoalkanes Practical		10/03/22 12:00-12:40	0-12:40	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Chlorination of 2- methylpropan-2-ol with concentrated hydrochloric acid Practical				
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Alcohols and the reactions			Organic Chemistry: Halogenoalkanes,	
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Oxidation			Alcohols and Spectra - Part 3	
	23	14-Mar-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Purifying an organic liquid	17/03/22	12:00-12:40		
			Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	The oxidation of propan- 1-ol to produce propanal and propanoic acid Practical				

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Week Number	Week Commencing Date	Торіс	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked	
		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Mass spec			Organic Chemistry: Halogenoalkanes,		
24	21-Mar-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	IR	24/03/22	12:00-12:40	Alcohols and Spectra - Part 4		
24		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Analysis of some inorganic and organic unknowns Practical	24/03/22	12.00-12.40			
		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra						
25	28-Mar-22	Energetics, Group Chemistry, Halog	enoalkanes and Alcohols	End of Unit	31/03/22	12:00-12:40		End of unit	
Holiday 04/04/22 - 24/04/22									
26		Structure, Bonding and Introduction to Organic Chemistry	Formulae, Equations and Amount of Substance	Recap	28/04/22	12:00-12:40		Mock Exam	
		Structure, Bonding and Introduction to Organic Chemistry	Atomic structure and the periodic table	Recap	20/04/22	12.00-12.40		WIGEN EXAM	
27		Structure, Bonding and Introduction to Organic Chemistry	Bonding and structure	Recap	05/05/22	12:00-12:40			
		Structure, Bonding and Introduction to Organic Chemistry	Introductory Organic Chemistry and Alkanes	Recap					
		Structure, Bonding and Introduction to Organic Chemistry	Alkenes	Recap					
28		Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Energetics	Recap	12/05/22	12:00-12:40			

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	Week Number	Week Commencing Date	Topic	Subtopic	Video Lesson and MCQs	Drop in Session Date	Drop in Session Time	Notes	Tutor Marked
	29	16-May-22	Energetics, Group Chemistry, Halogenoalkanes and Alcohols	Intermolecular forces	Recap	- 19/05/22	12:00-12:40		
				Redox Chemistry and Groups 1, 2 and 7	Recap				
	30	23-May-22	0 , 1 ,,	Introduction to Kinetics and Equilibria	Recap	- 26/05/22	12:00-12:40		
			Energetics, Group Chemistry,	Organic Chemistry: Halogenoalkanes, Alcohols and Spectra	Recap				
	Holiday 30/05/21 - 05/06/22								
	31	06-Jun-22		09/06/		12:00-12:40			
	32	13-Jun-22			16/06/22	12:00-12:40			
	33	20-Jun-22	Self directed revision Exam period			23/06/22	12:00-12:40	2:40 Exam period	
	34	27-Jun-22				30/06/22	12:00-12:40		
	35	04-Jul-22				07/07/22	12:00-12:40		
	36	11-Jul-22				14/07/22	12:00-12:40		
	Holiday 18/07/22 -04/09/22								