Curriculum Map 2021-2022: Year 12 Chemistry

Year Overview

	Teacher 1: MBI (2 lessons per week)	Teacher 2:USM / KJN (4 lessons per week)		
Autumn 1	Organic: Intro to organicPhysical: Atomic structureAlkanesPhysical: Amount of substar			
Autumn 2	Organic: Halogenoalkanes Organic: Alkenes	Physical: Bonding Physical: Energetics		
Spring 1	Organic: Alcohols	Physical: Kinetics		
Spring 2	Organic: Organic analysis	Inorganic: Periodicity, period 3, group 2 and group 7		
Summer 1	Revision and Exam prep	Revision and Exam prep		
Summer 2	Revision and Exam prep	Revision and Exam prep		

			Teacher 1 (X2 lessons per week)	Teacher 2 (X4 lessons per week)	Homework	Assessment
	30/08/2021	Week 1				
	06/09/2021	Week 2				
	13/09/2021	Week 3	Organic-Intro to Organic: Nomenclature	Physical-Atomic structure: Intro to Atomic structure Physical -Atomic structure: Mass spectrometry	Exam questions / Revision and reading	
		Week	Organic -Intro to Organic: Structural isomerism	Physical -Atomic structure: Electronic configuration and 1 st ionisation energy	Exam questions / Revision and reading	Physical -Atomic structure: Test
		4		Physical -Atomic structure: Test		
c		Week	Organic -Intro to Organic: Geometric isomerism	Physical -Atomic structure: Feedback and DIRT	Exam questions / Revision and reading	
Autumn 1	27/09/2021	5		Physical-Amount of substance: RAM, RMM, Moles		
			Organic -Alkanes: Fractional distillation and cracking	Physical -Amount of substance: Ideal Gas Law	Exam questions / Revision and reading	
	Week 6			Physical -Amount of substance: Empirical and Molecular formula		
	04/10/2021					
	11/10/2021	Week 7	Organic -Alkanes: Combustion	Physical -Amount of substance: Balancing equations Physical -Amount of substance: Reacting masses	Exam questions / Revision and reading	
	.,,	Week	Organic -Alkanes: Free radical substitution	Physical -Amount of substance: Percentage yield and Atom economy	Exam questions / Revision and reading	
	18/10/2021	8		Physical -Amount of substance: Solutions and Titrations	1	
Autu mn 2		Week 9	Organic -Alkanes: Free radical Substitution	Physical -Amount of substance: REQUIRED PRACTICAL (Volumetric solution and titration)	Exam questions / Revision and reading	CPAC REQUIRED PRACTICAL (Volumetric solution and titration
4 E	01/11/2021	Ĩ		Physical -Amount of substance: Test		

			Organic -Intro to Organic and Alkanes:	Physical -Amount of substance: Feedback and	Exam questions / Revision and	Physical -Amount of substance: Test
		Week	Test	DIRT	reading	
	08/11/2021	10		Physical -Bonding: Ionic bonding		Organic -Intro to Organic and Alkanes: Test
		Week	Organic Intro to Organic and Alkanes:	Physical -Bonding: Covalent bonding	Exam questions / Revision and	
	15/11/2021	11	Feedback and DIRT	Physical -Bonding: Metallic bonding	reading	
		Week	Organic -Halogenoalkanes: Nucleophilic	Physical -Bonding: Shapes of molecules	Exam questions / Revision and	
	22/11/2021	12	substitution	Physical -Bonding: Bond polarity	reading	
		Week	Organic -Halogenoalkanes: Elimination	Physical -Bonding: Intermolecular forces	Exam questions / Revision and reading	Physical -Bonding: Test
	29/11/2021	13		Physical -Bonding: Test		
		Week	Organic -Halogenoalkanes: Assessment	Physical -Bonding: Feedback and DIRT	Exam questions / Revision and	
	06/12/2021	14	and DIRT	Physical Energetics: Enthalpy change	reading	
			Organic -Alkenes: Structure and	Physical -Energetics: Calorimetry	Exam questions / Revision and	CPAC: <i>Physical</i> -Energetics: REQUIRED
		Week	Reactivity		reading	PRACTICAL: (Measuring enthalpy change)
	13/12/2021	15		<i>Physical</i> -Energetics: REQUIRED PRACTICAL: (Measuring enthalpy change)		
		Week	Organic -Alkenes: Electrophilic addition	Physical -Energetics: Hess' Law	Exam questions / Revision and	
	03/01/2022	16		Physical -Energetics: Hess's Law	reading	
		Week	Organic -Alkenes: Addition polymers	Physical -Energetics: Bond Enthalpies	Exam questions / Revision and	Physical -Energetics: Test
	10/01/2022	17		Physical -Energetics: Test	reading	
		Week	Organic -Alkenes: Test	Physical -Energetics: Feedback and Dirt	Exam questions / Revision and reading	Organic -Alkenes: Test
		18		Physical -Kinetics: Collision theory and Maxwell-Boltzmann		
	17/01/2022					
Spring 1		Week	Organic -Alkenes: Feedback and DIRT	Physical -Kinetics: Factors affecting rate of reaction	Exam questions / Revision and reading	
Spi		19		Physical -Kinetics: Catalysts		
	24/01/2022					
			Organic -Alcohols: Production of alcohols	Physical -Kinetics: REQUIRED PRACTICAL: (rate of reaction)	Exam questions / Revision and reading	CPAC: REQUIRED PRACTICAL: (rate of reaction)
		Week 20		Physical -Kinetics: Test	-	Physical -Kinetics: Test
	31/01/2022					
		Week	Organic -Alcohols: Oxidation of alcohols	Physical -Kinetics: Feedback and DIRT	Exam questions / Revision and	
		WVCCK				
	07/02/2022	21		Inorganic-Periodicity: Period 3 Trends	reading	
	07/02/2022		Organic -Alcohols: REQUIRED PRACTICAL (Distillation)	Inorganic-Periodicity: Period 3 Trends Inorganic -Group 2: Trends of group 2	Exam questions / Revision and reading	CPAC: <i>Organic</i> -Alcohols: REQUIRED PRACTICAL (Distillation)

		Week	Organic -Alcohols: REQUIRED PRACTICAL	Inorganic -Group 7: Uses of Chlorine	Exam questions / Revision and	
	28/02/2022	23	(Distillation)	Inorganic I-Group 7: Reducing ability	reading	
		Week 24	Organic -Alcohols: Test	Inorganic -Group 7: REQUIRED PRACTICAL: (Test tube reactions on cations and anions) Inorganic -Periodicity, Group 2, Group 7: Test	Exam questions / Revision and reading	CPAC: Inorganic -Group 7: REQUIRED PRACTICAL: (Test tube reactions on cations and anions) Inorganic -Periodicity, Group 2, Group 7: Test
	07/03/2022					Organic -Alcohols: Test
Spring 2	14/03/2022	Week 25	Organic -Alcohols: Feedback and DIRT	Inorganic -Periodicity, Group 2, Group 7: Feedback and DIRT Revision and exam prep	Exam questions / Revision and reading	
S	14/03/2022	Maal	Organic -Organic analysis: Analysis of	Revision and exam prep	Exam questions / Revision and	
	21/03/2022	Week 26	functional groups	Revision and exam prep	reading	
	21/03/2022		Organic -Organic analysis: REQUIRED	Revision and exam prep	Exam questions / Revision and	
	28/03/2022	Week 27	PRACTICAL: Tests for alcohol, aldehyde, alkene and carboxylic acid	Revision and exam prep	reading	CPAC: Organic -Organic analysis: REQUIRED PRACTICAL: Tests for alcohol, aldehyde, alkene and carboxylic acid
		Week	Organic -Organic analysis: Mass	Revision and exam prep	Exam questions / Revision and reading	
	04/04/2022	28	spectrometry	Revision and exam prep		
	,	Week 29	Organic -Organic analysis: Infrared spectroscopy	Revision and exam prep	Exam questions / Revision and reading	
				Revision and exam prep		
		Week	Organic -Organic analysis: Test	Revision and exam prep	Exam questions / Revision and	Organic -Organic analysis: Test
1	02/05/2022	30		Revision and exam prep	reading	
Summer	Week 31	Week	Organic -Organic analysis: Feedback and	Revision and exam prep	Exam questions / Revision and reading	
ш		31	DIRT	Revision and exam prep		
Su		Week	Revision and exam prep	Revision and exam prep		
	16/05/2022	32		Revision and exam prep		
	,	Week	Revision and exam prep	Revision and exam prep		
	23/05/2022	33		Revision and exam prep		
er 2	06/06/2022	Week 34	MOCK EXAM PERIOD			
	13/06/2022	Week 35	MOCK EXAM PERIOD			
μ		Week	Revision and exam prep	Revision and exam prep		
Summer	20/06/2022	36		Revision and exam prep		
S		Week	Revision and exam prep	Revision and exam prep		
	27/06/2022	37		Revision and exam prep		
	04/07/2022					

		Week 38		
	11/07/2022	Week 39		
	18/07/2022	Week 40		