



Dr. Bbosa Science

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+256 778 633 682, 753 802709
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Senior Five Chemistry syllabus

S5 Term 1

Topic		Sub-topic		Periods
1.	Moles and equation	1.1	Masses of atoms and molecules accurate relative atomic masses	09
		1.2	Amount of substances, mole calculation	12
		1.3	Chemical formulae and chemical equations	09
		1.4	Solutions and concentration, calculations involving gas volumes	21
2.	Atomic and Electronic Structure	2.1	Electron configurations of atoms and ions	12
		2.2	Radioactivity and its application	15
3.	Bonding	3.1	Formation of ionic and metallic bonds	12
		3.2	Covalent bonds and molecular structure	18
Total				108

S5 Term 2

Topic		Subtopic		Periods
4.	Periodicity 1	4.1	The periodic Table	06
		4.2	Variation in trends of properties across periods and diagonal relationships	09
		4.3	Trends in properties of Group 2 elements	09
5.0	Thermochemistry	5.1	Enthalpy changes and energy profiles	09
		5.2	Types of enthalpy changes and Hess's law	15
		5.3	Born-Haber cycles and lattice energy	15
6.	Organic Chemistry	6.1	Introduction to organic compounds	15
		6.6	Alkanes, alkenes, alkynes	15
Total				108

S5 Term 3

		6.3	Halogen compounds (Alkyl halides)	12
		6.4	Benzene and methyl benzene	15
7.	Equilibria I	7.1	The concept of chemical equilibrium	18
		7.2	Equilibria and the chemical industry	15
		7.3	Ionic equilibrium, hydrolysis of salts and buffer solutions	30
		7.4	Solubility equilibria	18
Total				108

Senior Six Chemistry syllabus

S6 Term 1

8.	Equilibria II	8.1	Physical equilibria	27
		8.2	Colligative properties	18
9.	Organic Chemistry II	9.1	Alcohols and phenols	24
		9.2	Carbonyl compounds (aldehydes and ketones)	24
		9.3	Carboxylic acids and derivatives	15
Total				108

S6 Term 2

10.	Electrochemistry	10.1	Redox reactions and oxidation numbers	18
		10.2	Electrochemical cells and applications	21
		10.3	Electrolysis and Faraday's laws	15
11.	Periodicity II	11.1	Trends in chemical properties of Group 14 elements and their compounds	15
		11.2	Trends in properties of Group 17 elements and their compounds	15
		11.3	The d-block transition elements	24
Total				108

S6 Term 2

12.	Organic Chemistry III	12.1	Amines	18
		12.2	Polymers and polymerisation	18
13.	Reaction Kinetics	13.1	Rate equations and orders of reaction	18
		13.2	Factors affecting rates of reactions	18
Total				72

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