(~80 classes)

		YEAR ONE			YEAR TWO	
Month	Ch.	Topic	Assess	Ch.	Topic	Assess
Sep	1	Quantitative chemistry	Lab Activity	IA	Individual Investigation	
Sep	1	Stoichiometric relationships	Topic Quiz		Review of Year One	
Oct	11.1/ 11.2	Measurement and data processing	Lab Activity	7/17	Equilibrium	Lab
Oct	2/12	Atomic Structure (SL/AHL)	Unit Exam	7/17	Equilibrium (HL) + catch up or IA or CH 8	Unit Exam
Nov	3/13	Periodicity	Element Hero Project	8/18	Acids and Bases	Lab
Nov	4/14	Bonding	Lab Activity	8/18	Acids and Bases (HL)	Unit Exam
Dec	4/14	Bonding		9/19	Oxidation and Reduction	First nations perspectiv e project
Dec	4/14	Chemical bonding and structure(HL)	Unit Exam	9/19	Redox Processes	Unit Exam
Jan	5/15	Energetics	Lab	10/2 0	Organic Chemistry	Traditional dyeing technique project
Jan	5/15	Energetics	Quiz	10/2 0	Organic Chemistry: Synthesis + Stereoisomerism	Test
Feb	5/15	Energetics			Flex	
Feb	6	Chemical Kinetics	Project		Catch up + IA or Options	
Mar	16	Chemical Kinetics (HL)	Unit Exam		Options	
Mar	10	Organic Chemistry	Lab		Options	
Apr	10	Organic Chemistry	Project		Review	Mock Exam
Apr	21	Measurement and Data Analysis	Lab (Measure ment olympics)		IB Practice Exams	
May	11.3	Spectroscopic identification	Assignme nts		IB Exams	

May	Unit Review (catch up)	Concept map		IB Exams	
Jun	Unit Review	Research Project			
Jun	Internal Assessment	Final Exam			

Core Topic 1: Stoichiometric relationships 1.1 Introduction to the particulate nature of matter and chemical change 1.2 The mole concept 1.3 Reacting masses and volumes		95 hours 13.5
Topic 2: Atomic structure 2.1 The nuclear atom 2.2 Electron configuration		6
Topic 3: Periodicity 3.1 Periodic table 3.2 Periodic trends		6
Topic 4: Chemical bonding and structure 4.1 Ionic bonding and structure 4.2 Covalent bonding 4.3 Covalent structures 4.4 Intermolecular forces 4.5 Metallic bonding		13.5
Topic 5: Energetics/thermochemistry 5.1 Measuring energy changes 5.2 Hess's Law 5.3 Bond enthalpies	9	
Topic 6: Chemical kinetics 6.1 Collision theory and rates of reaction		7
Topic 7: Equilibrium 7.1 Equilibrium		4.5
Topic 8: Acids and bases 8.1 Theories of acids and bases 8.2 Properties of acids and bases 8.3 The pH scale 8.4 Strong and weak acids and bases		6.5

8.5 Acid deposition

Topic 9: Redox processes 9.1 Oxidation and reduction 9.2 Electrochemical cells	8
Topic 10: Organic chemistry 10.1 Fundamentals of organic chemistry 10.2 Functional group chemistry	11
Topic 11: Measurement and data processing 11.1 Uncertainties and errors in measurement and results 11.2 Graphical techniques 11.3 Spectroscopic identification of organic compounds	10
Additional higher level (AHL)	60 hours
Topic 12: Atomic structure	2
12.1 Electrons in atoms	
Topic 13: The periodic table—the transition metals 13.1 First-row d-block elements 13.2 Coloured complexes	4
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Topic 14: Chemical bonding and structure	7
14.1 Covalent bonding and electron domain and molecular geometries14.2 Hybridization	
Topic 15: Energetics/thermochemistry	7
15.1 Energy cycles	
15.2 Entropy and spontaneity	
Topic 16: Chemical kinetics	6
16.1 Rate expression and reaction mechanism	
16.2 Activation energy	
Topic 17: Equilibrium	4
17.1 The equilibrium law	
Topic 18: Acids and bases	10
18.1 Lewis acids and bases	
18.2 Calculations involving acids and bases	
18.3 pH curves	
Topic 19: Redox processes	6

19.1 Electrochemical cells

Topic 20: Organic chemistry	12
20.1 Types of organic reactions	
20.2 Synthetic routes	
20.3 Stereoisomerism	
Tanic 21. Magazarament and analysis	2
Topic 21: Measurement and analysis	2
21.1 Spectroscopic identification of organic compounds	