

## Chemistry - IAL EdExcel

Approximate available lessons based on 5 lessons per week over 37 week year; assuming approximately 16 lessons missed for holidays/other subject activities/PSHE/exams

Exact curriculum timings are approximate due to holidays/ other subject trips and activities / PHSE / internal examinations

All topics across KS5 will have ongoing formative assessment including:

- Questioning techniques
- Peer/self-marking and assessments
- Written exercises
- Presentations
- Class activities
- Practical work

All topics will have some form of summative assessment to test the knowledge and skills covered within the topic. These will take the forms of:

- End of topic tests
- Scientific Investigations

All topics will include practical work to ensure that the links between practical and theory are encouraged and emphasised.

		Year 12 Chemistry	Year 13 Chemistry				
Topic and Content	<ul> <li>T1: Atomic Structure Bonding and Structure Introduction to Organic Chemistry Alkanes</li> <li>T2: Alkenes Intermolecular Forces Redox and Group chemistry</li> <li>T3: Halogenoalkanes, Alcohols and Spectra Physical Chemistry</li> <li>T4: Exam preparation, A2Energetics and entrophy, A2 Kinetics</li> </ul>		T1: Chemical Equilibria, Acid base equilibria, Organic Chemistry: Carbonyls, Carboxylic acids and chirality T2: Organic Chemistry: Carbonyls, Carboxylic acids and Chirality, Organic nitrogen compounds: Amines, Amides, Amino acids and Proteins, Acid base Equilibria, Redox equilibria T3: Organic nitrogen compounds: Amines, Amides, Amino acids and Proteins, Organic chemistry: Arenes, Organic Synthesis, Redox equilibria, Transition Metals and their Chemistry T4: Exam preparation				
Assessment Objectives and Weightings				% in IAS	% in IA2	% in IAL	
weightings	A01	Demonstrate knowledge and understanding of science.			29-31	32-34	
	A02	(a) Application of knowledge and under science in familiar and unfamiliar co	34-36	33-36	33-36		
		(b) Analysis and evaluation of scientific to make judgements and reach cond	9-11	14-16	11-14		
	A03	Experimental skills in science, including analysis and evaluation of data and methods.		20	20	20	
			1				
Method of Summative Assessment	Projects Investigations End of Topic Tests Public Examinations in Jan (Unit 1) and June (Units 2 and 3)		Projects Investigations End of Topic Tests Public Examinations in Jan (Unit 4) and June (units 5 and 6)				