

Subject	Year	Term
Chemistry	10	1
Topic		
Chemistry - Bonding (Unit 2), Quantitative Chemistry (Unit 3)		
Content (Intent)		
Prior Learning (Topic) Chemistry – The atmosphere (unit 9)		
AQA GCSE Chemistry <ul style="list-style-type: none"> Unit 2 Bonding - Ionic, covalent, metallic bonding, compounds and properties, polymers, fullerenes Unit 3 Quantitative Chemistry – Mole Calculations, Ar, Mr, reacting masses, Limiting reagents, concentration calculations, titrations and their calculations, percentage yield, atom economy and empirical formula 		
<hr style="border-top: 1px dashed black;"/> Future Learning (Topic) Chemistry - Quantitative Chemistry (Unit 3), Chemical Changes (Unit 4)		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
Unit 2 Bonding Recall the structure and properties of Ionic, Covalent, and Metallic compounds. Explain the structure and properties of polymers. Identify the difference in properties of simple covalent and Giant Molecular structures. Recall the structure of various Fullerenes and their uses. Recall the definition, size and uses of Nanoparticles.	Key Piece of work (Homework) Pupils given a percentage and formative feedback provided.	
Interleaving Topic Unit 1 Atomic Structure – Key Terms and concepts, will be reviewed prior to the start of the Unit 2 bonding topic.	End of topic test Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
Unit 3 Quantitative Chemistry Calculating mass of reactants and products, Calculating Mr, Ar, Number of Moles, Number of moles in solutions, reacting masses, limiting reagents, titration calculations, Concentrations, Volumes, Empirical formulas, percentage yield, atom economy, calculating to significant figures.	Year 10 Assessment 1, Year 11 Assessments 1 and 2 Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
Interleaving Topic Unit 8 Chemical Analysis – Key Terms and concepts Required practical skills and calculations, will be reviewed prior to the start of the Unit 3 Quantitative chemistry topic	Key Piece of work (Homework) Pupils given a percentage and formative feedback provided.	
	End of topic test Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
	Year 10 Assessment 2, Year 11 Assessments 1 and 2 Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.	
How can parents help at home?		
Ensure all class booklets are complete and homework submitted on time Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers. Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters. Ensure all pupils have all their resources required for science lessons, including Knowledge organisers, pens and calculators		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Reading AQA revision guides AQA revision cards EDUCAKE online learning platform. GCSE POD BHHS Knowledge organisers Seneca Learning	Vocabulary Lists Ionic Covalent Fullerene Empirical formula Giant Covalent Simple Molecular Nanoparticle	Moles Concentration Relative Molecular Mass Relative Formula Mass Empirical Formula Percentage yield Limiting Reagent Titration