



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, fullerenesUnit 3 Quantitative Chemistry – Mole Calculations, Ar, Mr, titrations and their calculations, percentage yield, and empirical formula		
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. End of topic test and Year 10 Mock Exams Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. <u>Interleaving Topic</u> Unit 1 Atomic Structure – Key Terms and concepts, will be reviewed prior to the start of the Unit 2 bonding topic.	
Unit 3 Quantitative Chemistry Calculating mass of reactants and products, Calculating Mr, Ar, Number of Moles, Number of moles in solutions, titration calculations, Concentrations, Volumes, Empirical formulas, percentage yield, limiting reagents, calculating to significant figures.	Key Piece of work (Homework) Pupils given a percentage and formative feedback provided. End of topic test and Year 10 Mock Exams Pupils given a percentage and GCSE equivalent grade. Formative feedback provided. <u>Interleaving Topic</u> 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	
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	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