



Subject	Year	Term
Chemistry	9	1
Topic		
Atomic Structure		
Content (Intent)		
Prior Learning (Topic)	KS3 Science National Curriculum	
Students will have learnt SKILLS such as balancing equations, performing practicals safely, identifying trends in reactivity based on the periodic table.		
Students will have learnt and built upon their KNOWLEDGE about the concepts of chemical symbols, the periodic table, formulae for elements and compounds, the history around the structure of the atom and the creation of the modern periodic table.		
Students will have UNDERSTOOD the concept of how elements in group 1, 7 and 0 react based on their atomic structure.		
Future Learning (Topic)	Chemical Analysis	
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)
Knowledge Recall the periodic table, historical development of the periodic table. Recall the historic and current model of the atom. The arrangement of elements in the modern periodic table can be explained in terms of their electron arrangement and how that links to their chemical reactivity. Specific reference to the chemical reactivity of group 1, 7 and 0 in the periodic table.		Key Piece of work (Homework) Pupils given a percentage and formative feedback. End of topic test Pupils given a percentage, formative feedback and GCSE equivalent grade. Formative feedback provided. Year 9 end of year exams Pupils given a percentage, formative feedback and GCSE equivalent grade.
Practical Skills – To study, make and recall observations during practicals when reviewing reactivity of group 1, 7 and 0. Maths Skills – use of linear equations to calculate relative atomic mass, significant figures. Calculation of Relative Atomic mass with reference to isotopes and their relative abundance.		
How can parents help at home?		
Ensure all class work is completed 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, exercise books, 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 Atomic Number Atomic Mass Number Isotope Alkali Metal The Halogens	Plum Pudding Model Nuclear Model The Noble Gases The Transition Metals Relative Atomic Mass