



Subject	Year	Term
Chemistry	9	3
Topic		
Chemistry - The Rate and Extent of Chemical Change		
Content (Intent)		
Prior Learning (Topic) Chemistry – Chemical Analysis (unit 8)		
Students will have a basic KNOWLEDGE on chemical reactions as the rearrangement of atoms, representing chemical reactions using formulae and using equations		
Students will have a good UNDERSTANDING of the term's reactants, products, states of matter and identification of equipment needed to complete a specific practical.		
Students will have the SKILLS to draw graphs from continuous data collected in an experiment.		
Future Learning (Topic) Chemistry - Atomic Structure		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Knowledge - To monitor and calculate rates of a reaction. To recall the variables of temperature, concentration/pressure, surface area and catalysts can be manipulated in order to speed up or slow down a reaction.</p> <p>To understand that these variables will affect its yield. To recall the effects these variables, have on the collision theory.</p>	<p>Key Piece of work (Homework)</p> <p>Pupils given a percentage and formative feedback provided for a targeted piece of homework so that they can respond to the teacher and make progress in the topic.</p>	
<p>Maths Skills: graph drawing, lines of best fit, significant figures.</p> <p>Practical Skills: All students to complete the Required Practical 'Monitoring Rates of reaction'</p>	<p>End of topic test</p> <p>Pupils given a percentage, formative feedback and GCSE equivalent grade. Formative feedback provided.</p> <p>End of year 9 exams</p> <p>Pupils given a percentage, formative feedback and GCSE equivalent grade.</p>	
How can parents help at home?		
<p>Ensure all class booklets are complete and homework submitted on time</p> <p>Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.</p> <p>Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.</p> <p>Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators</p>		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
<p>Reading</p> <p>AQA revision guides</p> <p>AQA revision cards</p> <p>EDUCAKE online learning platform.</p> <p>GCSE POD</p>	<p>Vocabulary Lists</p> <p>Rates of reaction</p> <p>Concentration</p> <p>Catalysts</p> <p>Surface Area</p>	<p>Frequency of Collisions</p> <p>Activation Energy</p> <p>Collision Theory</p>