

Chemistry Long Term Plan Year 10 2019-20

Temperance Term

W/C	2nd September	9th September	16th September	23rd September	30th September	7th October	14th October	21st October
Topic	C3 – Quantitative chemistry							
	Describe how the structure of fullerenes is based on hexagonal rings of carbon atoms but they may also contain rings with five or seven carbon atoms. The first fullerene to be discovered was Buckminsterfullerene (C60) which has a spherical shape.							
Challenge	Explain the effect of a limiting quantity of a reactant on the amount of products it is possible to obtain in terms of amounts in moles or masses in grams							
Assessment	C3 mid-unit and end of unit exams							
W/C	HALF TERM	4th November	11th November	18th November	25th November	2nd December	9th December	CHRISTMAS
Topic		C3 – Quantitative chemistry						
		Describe the discovery of the electron led to the plum pudding model of the atom. The plum pudding model suggested that the atom is a ball of positive charge with negative electrons embedded in it.						
Challenge		Determine the number of moles used from empirical formulas and products.						
Assessment		C3 exams						

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Justice Term

W/C	6 th January	13 th January	20 st January	27 th January	3 rd February	10 th February	HALF TERM
Topic	C4 – Chemical changes						
	Understand the use of the multipliers in equations in normal script before a formula and in subscript within a formula.						
Challenge	Explain any observed changes in mass in non-enclosed systems during a chemical reaction given the balanced symbol equation for the reaction and explain these changes in terms of the particle model.						
Assessment	Mid term and end of unit exams						
W/C	24 th February	2 nd March	9 th March	16 th March	23 rd March	30 th March	EASTER
Topic	C5 – Energy changes						
	Describe the effects of changing conditions on a system at equilibrium can be predicted using Le Chatelier’s Principle.						
Challenge	Interpret appropriate given data to predict the effect of a change in temperature on given reactions at equilibrium						
Assessment	Mid term and end of unit exams						

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Courage Term

W/C	20 th April	27 th April	4 th May	11 th May	18 th May	HALF TERM
Topic	C5- rate and extent of chemical change					
	Recall how changing these factors affects the rate of chemical reactions		Year 10 Mock Exams			
Challenge	Explain why catalysts increase the rate of reaction by providing a different pathway for the reaction that has a lower activation energy.					
Assessment	Mid term and end of unit exams					
W/C	1 st June	8 th June	15 th June	22 nd June	29 th June	6 th July
Topic	Work Experience	C7- Organic chemistry				
		Recognise substances as alkanes given their formulae in these forms.				
Challenge		Determine name and therefore properties from chemical formula.				
Assessment		End of unit exams				