## Subject: Chemistry (year 10) Long-term plan

Week	Month	Learning Intentions and/or Key Questions
Aut1-1	September	Chemistry: Quantitative Chemistry:
Aut1-2	1 .	Conservation of mass and balancing equations
Aut1-3		Moles
Aut1-4	1	Limiting reactants
Aut1-5	October	Concentrations of solutions
Aut1-6	1	Molar gas volume (TRIPLE
Aut1-7	-	Percentage yield and atom economy (TRIPLE)
7.011 7		Revision, Assessment and Feedback
		Half term holiday
Aut2-1	November	Chemistry- Chemical changes
A 10 . 0	_	Neutralisation and pH scale  Titrations (TRIPLE)
Aut2-2		Titrations (TRIPLE)     Strong and weak acids
A +O . O	_	<ul><li>Strong and weak acids</li><li>Reactions with acids (RP)</li></ul>
Aut2-3	_	The reactivity series
Aut2-4	_	Extracting metals
Aut2-5		Electrolysis (RP)
Aut2-6	December	Redox reactions
A 10. 7	_	Revision, Assessment and Feedback
Aut2-7		
		Christmas holiday
Spr1-1	January	Chemistry: energy changes
		Exothermic and endothermic reactions
Spr1-2		Energy changes
		Energy transfers
Spr1-3		Bond energies
		Chemical batteries (TRIPLE)
Spr1-4		Fuel cells (TRIPLE)
Spr1-5		Revision, Assessment and Feedback
Spr1-6	February	
		Chemistry: Rate of reaction:
		Rate of reaction
		Factors that can affect rate of reaction     Catalant
		Catalyst     Reversible regetions
		Reversible reactions  Revision Assessment and Foodback
		Revision, Assessment and Feedback
		Half term holiday
Spr2-1		Chemistry: Organic
,		Hydrocarbons
Spr2-2	1	Fractional distillation
- 1- 1		Cracking
Spr2-3	March	Alcohols (TRIPLE)
Spr2-4	1	Carboxylic acids (TRIPLE)
Spr2-5	1	Esters (TRIPLE)
Spr2-6	1	Condensation polymers (TRIPLE)
3012-0		Revision, Assessment and Feedback
	April	Easter holiday
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Sum1-1		<u>Chemistry: Chemical analysis:</u>
		Purity

Sum1-2 Sum1-3 Sum1-4 Sum1-5 Sum1-6	May	<ul> <li>Test for gases</li> <li>Paper chromatography</li> <li>Test for anions (TRIPLE)</li> <li>Test for cations (TRIPLE)</li> <li>Mass spectroscopy (TRIPLE)</li> <li>Revision, Assessment and Feedback</li> </ul> Chemistry: Atmosphere: <ul> <li>Evolution of atmosphere</li> <li>Global warming</li> <li>Carbon footprint</li> <li>Lifecycle assessments</li> <li>Air pollution</li> </ul> Revision, Assessment and Feedback
Sum2-1 Sum2-2 Sum2-3 Sum2-4 Sum2-5 Sum2-6 Sum2-7	July	Half term holiday  Chemistry: Using resources  Composites and ceramics (TRIPLE) Polymers (Triple) Corrosion (TRIPLE) Recycling Potable water Waste management.  Revision, Assessment and Feedback