	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
	Content delivered:	Content delivered:	Content delivered:	Content delivered:	Content delivered:
Year 11	Unit 7: Crude oil	Unit 8: Pure substances	Unit 9: Gases in the atmosphere	Unit 10: Life cycle assessment	Unit 1 content review and exam prep Unit 2 content review and exam prep
Chemistry &	Hydrocarbons Alkanes	Formulations Chromatography	Earths early atmosphere How atmospheric gasses changed	Reducing the use of limited resources Corrosion (Chemistry only)	Unit 3 content review and exam prep Unit 4 content review and exam prep
Combined	Fractional distillation Alkenes	Identification of common gasses Identifying anions and cations	Greenhouse gasses Global climate change	Alloys (Chemistry only) Ceramics (Chemistry only)	Unit 5 content review and exam prep Unit 6 content review and exam prep
Science	Cracking Reactions of alkenes		Reducing carbon footprint Atmospheric pollutants	Haber process (Chemistry only)	Unit 7 content review and exam prep Unit 8 content review and exam prep
Chemistry	Alcohols (Chemistry only) Carboxylic acids (Chemistry only) Esterification (Chemistry only) Addition polymerisation (Chemistry only) Condensation polymerisation (Chemistry only)		Unit 10: Using Earths resources and sustainable development Potable water Waste water treatments Alternative metal extraction methods		Unit 9 content review and exam prep Unit 10 content review and exam prep
Key Words Level 2 Level 3	Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility, alcohol, carboxylic acid, ester/esterification	Litmus paper, bleach, electrolysis, anion, cation, anode, cathode, solvent	Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas, life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching	Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching	Taken from all units
Where previous knowledge has occurred and future development KS2 → KS3 → KS4 → KS5	KS2: Properties of materials KS3: Composites, Polymers and Ceramics KS4: Polymers KS5: Alkanes, alkenes, alcohols, aldehydes, ketones, carboxylic acids etc	KS2: Properties of solids, liquids and gases KS3: Separations KS4: State of matter and phase changes KS5: TLC and GC, Transition metal reactions	KS2: Ecology, earth and space KS3: The earth's atmosphere and greenhouse effect KS4: KS5: Reactions of transition metals	KS2: Rocks KS3: Composites, Polymers and Ceramics KS4: Bonding of metals and non-metals, rates KS5: Rates, Le Chatelier's principle	KS2: All relevant content KS3: All relevant content KS4: All taught units from Y10 & Y11 KS5: Used in all units
Common Misconceptions	Differences between intra-molecular and inter-molecular bonds	Naming of anions, cations, anodes and cathodes	Confusing climate change and global warming	Differences between corrosion and erosion	Identified and addressed from mock exams
Literacy	Writing to describe: process of fractional distillation NHTW reviews as starter activities	Scientific writing (HSW): Chromatography Scientific writing (HSW): Anion and cation tests NHTW reviews as starter activities	Writing to describe: evolution of atmosphere Writing to argue: Alternative extraction methods Scientific writing (HSW): Water testing NHTW reviews as starter activities	Writing to argue: Life cycle assessment Writing to describe: Haber process NHTW reviews as starter activities	NHTW reviews as starter activities
Numeracy	Negative numbers Calculating means Choosing appropriate graphs	Calculating Rf values	Working with percentages Calculating means	Interpreting graphs Calculating means Ratios	Graph skills Rearranging formulae Ratios
Homework	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes	Completion of kerboodle/everlearner section quizzes
Assessment this half-term Career opportunities Employment Links	LIFE SKILLS: Understanding where oil and its products come from EMPLOYMENT: Oil rig worker	Mock exams – paper 1 & 2 LIFE SKILLS: Understanding how gasses can be identified EMPLOYMENT: Forensic scientist	Mock exam – paper 2 LIFE SKILLS: Understanding the causes of climate change EMPLOYMENT: Climatologist	LIFE SKILLS: Understanding the 'life cycle' of different products EMPLOYMENT: Mechanic	LIFE SKILLS: Resilience and organisation EMPLOYMENT:
Enrichment Practical activities/HSW	Testing for alkenes Making polymers	Paper chromatography Gas tests Testing for anions and cations	Testing water samples		RP reviews
Employability Skills	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunicationPresentingTeamworkProblem solvingStaying positive
IT Skills	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes	IT1 & IT2: Appropriate websites and research for homework as well as recall quizzes
Notes/developments /standardisation comments					

Summer exams

Half term 6