

Year:11 Subject: Chemistry (Trilogy)

IMPLEMENTATION

<p>INTENT (including key concepts and skills)</p>	<p>Half Term 1 Context: C5 Part 1 Crude Oil and Fuels</p> <p>Key Vocabulary: Crude oil, finite, mixture, hydrocarbon, fractional distillation, alkane, alkene, saturated, unsaturated, general formula, boiling point, flammability, volatility, viscosity, complete combustion, incomplete combustion, cracking, thermal decomposition, bromine water</p> <p>Prior Learning Y7 R1 Combustion Y8 P4 Compounds and Mixtures C2 Covalent Bonding</p> <p>Cultural Capital: Importance of crude oil and society's reliance on a finite resource Use of cracking to match supply and demand for hydrocarbons</p>	<p>Half Term 2 Context: C5 Part 2 Chemical Analysis</p> <p>Key Vocabulary: Pure, impure, formulation, analysis, database, melting point, boiling point, chromatography, chromatogram, Rf value (retention factor), hydrogen, oxygen, carbon dioxide, limewater, chlorine, litmus paper</p> <p>Prior Learning Y7 R1 An introduction to reactions (gas tests) Y7 P2 Solutions (Chromatography) Y9 R4 Reactions of metals (gas tests)</p> <p>Cultural Capital: Formulations in everyday use The importance of chemical analysis i.e. safety of food additives and urine testing for banned substances in sport</p>	<p>Half Term 3 Context: C6 Earth's resources and Atmosphere</p> <p>Key Vocabulary: Atmosphere, greenhouse gases, climate change, pollutants, finite, renewable, extracting metals, life cycle assessments, reduce, reuse, recycle.</p> <p>Prior Learning: Y8 R3 Reactions in our environment Y8 R4 Reactivity Y9 P5 Rocks and Earth's resources</p> <p>Cultural Capital: How the earth's atmosphere evolved and how humans are affecting it now. What can be done to limit the effects? How metals found, extracted and conserved.</p>	<p>Half Term 4 Context: Revision of key principles from years 9 and 10</p> <p>Structured lessons will take place revisiting key principles from the GCSE topics C1-C6</p>	<p>Half Term 5 Context: Revision of all content during all Science lessons until the final Physics exam takes place.</p> <p>This will include lots of exam techniques being taught alongside exam style questions.</p>	<p>Half Term 6 Context: Revision of all content during all Science lessons until the final Physics exam takes place.</p> <p>This will include lots of exam techniques being taught alongside exam style questions.</p>
Applying knowledge and understanding to explain observations	X	X	X	X	X	X
Use different types of scientific enquiry to answer scientific questions	X	X	X	X	X	X
Use technical terminology with confidence accuracy and precisely	X	X	X	X	X	X
Apply mathematical knowledge to scientific understanding	X	X	X	X	X	X
Aware of some of the social and economic implications of science	X	X	X	X	X	X
<p>IMPACT</p>	<p>Assessment: At end of C5</p>	<p>Assessment: C5 End of topic Assessment GCSE Pre Public Exam on Paper 1 content</p>	<p>Assessment: C6 End of Topic Assessment</p>	<p>Assessment: GCSE Pre Public Exam on Paper 2 content</p>	<p>Assessment: Live GCSE exams start</p>	<p>Assessment: Live GCSE exams</p>

Cultural Capital is the body of knowledge a student needs so that they can flourish in the future and not be left behind.