

Curriculum Map	Subject	Chemistry	Year	10
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Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
C1 – Atomic Structure	Introduction to atomic structure and reminder of separation techniques using properties. Development of Atomic theory	Analysing evidence Balancing equations (HT) Practical skills – chromatography	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Fascination with understanding the world. Recognise role of British scientists in understanding the atom Scientific community	Food testing Forensics	Links to Yr 10 Physics – Radioactivity topic (P7) Maths: ratio
C2 – Periodic Table	Development of the Periodic table Patterns and trends within the periodic table <i>Transition metals (Triple)</i>	Analysing evidence	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Fascination with understanding the world. Scientific community. Understanding the viewpoints of others	Materials Data analyst (identifying patterns) Codebreaking	Maths – handling data Patterns & trends
C3 – Structure & Bonding	How atoms form compounds & the properties of those bonds. <i>Nanoparticles (Triple)</i>	Linking observations to theory & uses Future materials	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Fascination with understanding the world around them. Scientific community	Future materials Nanotech Chemical engineer Metallurgy (inc. Designer metals & alloys)	DT – melting points, alloys
C4 – Chemical Calculations	Conservation of mass and the mole concept. Concentration <i>Yield, titrations &amp; gas calculations</i>	Substitution into an equation Rearranging equations Multi-step calculations. Predicting yield	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Fascination with understanding the world around them. Scientific community	Industrial chemical engineer, Material handling, Chemical laboratory technician	Maths – ratio Calculating theoretical yield
C5 – Chemical Changes	Explaining reactivity, displacement and acid/base reactions.	Predicting reactions Practical skills – Making salts	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Environmental impacts of extracting (& using) materials. Understanding consequences and how actions impact on others.	Metallurgy Chemical engineer Environmental clean-up	Links to Yr 11 extracting metals (bioleaching & phytomining)
C6 - Electrolysis	Principles and uses of electrolysis. Extraction of aluminium.	Explaining process Keywords Predicting products sequencing	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Energy use Scientific community Understanding consequences and how actions impact on others.	Electroplating Cleaning Extraction/purification of reactive metals	DT - plating
C7 – Energy Changes	Exothermic and endothermic reactions; examples and uses Bond energy calcs (HT) <i>Fuel Cells (Triple)</i>	Maths: Calculating bond energies; negative numbers Practical skills – measuring temperature change.	Low stakes testing 'Do Now' tasks 30min End of Unit test Optional Kerboodle Checkpoint quiz & Seneca.	Scientific community Understanding consequences and how actions impact on others. Understanding the viewpoints of others	Chemical engineer, Materials handling Health & safety Science technician	Maths: Calculating bond energies; negative numbers