The English Martyrs Catholic School and Sixth Form College



172470B

Chemistry Year 11	Module 1	Module 2	Module 3
<u>Topic Theme and</u> <u>Intent</u>	Students review learning about atoms, ionic bonding and electrolysis which was disrupted by COVID. They also learn about the chemistry of the Earth and Atmosphere . This topic allows the students to understand the environmental challenges facing us today.	Students review learning about covalent bonding and crude oil which was disrupted by COVID. They also learn about the chemistry of the reversible reactions and equilibria . This topic allows the students to understand the choices made in careers in the chemical industry.	In this module students consolidate their learning and revise key concepts in the build up to their exams. Students look as specific areas identified in the mocks as weaknesses and complete broader revision of specific topics identified on an individua l basis.
<u>Knowledge</u>	 Atomic structure and the formation of ionic compounds Electrolysis The atmosphere and climate change Potable water 	 Covalent bonding The separation and use of the products of crude oil. Other organic molecules (Separates only) Reversible reactions, Equilibria and Le Chatelier's principle 	Rates of reaction and equilibria
<u>Skills</u>	Students complete practical work to determine the products of electrolysis. Students also carry out practical work to safely isolate pure water.	Students investigate the effect of changing conditions on the position of equilibrium. Students link these observations to Le Chatelier's principle.	better prepare them for their exams. They
<u>Literacy Links</u>	 Reading – Students will read about the environmental issue of air pollution. Writing – Students start to communicate scientific ideas and concepts through writing. Oracy – Students start to use scientific vocabulary in discussion and question and answering. 	 Reading – Students will read about the uses of oil. Writing – Students practise communicating scientific ideas and concepts through writing. Oracy – Students practise the use scientific vocabulary in discussion and question and answering. 	Reading – Students will read about the keyideas they have covered.Writing – Students practisecommunicating scientific ideas andconcepts through writing.Oracy – Students practise the usescientific vocabulary in discussion andquestion and answering.
Essential Vocabulary	Electron, electrode, electrolysis, electrolyte, potable, climate change, carbon footprint.	Crude oil, fractional distillation, alcohols, carboxylic acids, reversible reaction, equilibrium	Atoms, Bonding, Structure, Properties, Reactions, Rate, Equilibria, Atmosphere

