

The English Martyrs Catholic School and Sixth Form College



Chemistry Year 8	Module 1	Module 2	Module 3
<u>Topic Theme and Intent</u>	Students learn about The Periodic Table – the method scientists use to classify and group elements according to patterns . Students will also look at separation techniques as ways of separating mixtures . These topics are studied so that students can see the patterns of behaviour found in the materials that make up their world, and how to separate materials that are mixed.	Students learn about Materials used in everyday life. Students will consider metals and their parts in chemical reactions . They will also consider materials like ceramics and composites , and their usefulness . This topic is studied so that students can describe how materials are used in everyday life and their use depends on their physical and chemical properties..	Students learn about The Earth . Students look at the structure of the Earth and the atmosphere . They consider the different types of rock found on Earth, and how they are formed and recycled. Students also consider the impact of humans on the Earth and atmosphere. Students study this so they can understand the world around them and their impact on it.
<u>Knowledge</u>	<ul style="list-style-type: none"> Metals and non-metals The Periodic Table Groups on the periodic table. Solutions Separation Techniques 	<ul style="list-style-type: none"> Reactions of metals with acids, water and oxygen. Ceramics. Polymers. Composites. 	<ul style="list-style-type: none"> The Earth and atmosphere Rock types, formation, and the Rock Cycle. The Carbon Cycle. Climate Change and Recycling.
<u>Skills</u>	Students will make observations from chemical reactions, analyse this data and form conclusions.	Carry out experiments, record observations and analyse the data to identify orders of reactivity and patterns of reactivity.	Carry out observations of rocks to identify rock types and make links to rock formations.
<u>Literacy Links</u>	<p>Reading – Students will read about elements on the periodic table.</p> <p>Writing – Students start to communicate scientific ideas and concepts through writing.</p> <p>Oracy – Students start to use scientific vocabulary in discussion and question and answering.</p>	<p>Reading – Students will read about everyday materials.</p> <p>Writing – Students practise communicating scientific ideas and concepts through writing.</p> <p>Oracy – Students practise the use scientific vocabulary in discussion and question and answering.</p>	<p>Reading – Students will read about the Structure of the Earth.</p> <p>Writing – Students will communicate scientific ideas and concepts through writing.</p> <p>Oracy – Students use scientific vocabulary in discussion and question and answering.</p>
<u>Essential Vocabulary</u>	Group, period, halogen, noble gas, alkali metal, filtration, distillation, chromatography.	Oxides, salts, crystals, ceramics, polymers, composites.	Crust, mantle, core, sedimentary, igneous, metamorphic, weathering, cycle, climate, recycling.

Disciplinary Reading

CGP Books – KS3 Science



Reading for Pleasure

D. Adams - The Hitchhikers Guide to the Galaxy



R. Welford - The 1000 year old Boy



P. Brown - Red Rising

