

Year 11 Chemistry Learning Programme 3

<p>The LORIC skill focus for his LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE</p> <p>Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.</p> <p>What will I be learning about in this Learning Programme? How to identify different chemicals through lab tests and evaluate those testing methods. How the earth's atmosphere has developed and how humans are impacting the atmosphere. How humans are using the earth's resources and evaluate the environmental impact of this usage.</p> <p>Where have I seen this learning before? Chromatography at KS3, Alloys and materials at KS3 and bonding and structure in Yr10.</p> <p>What could I use it for? Testing for chemical substances is a required practical skill for A 'level chemistry and Applied Science at KS5.</p>	<p>Literacy:</p> <ul style="list-style-type: none"> Capital letters must be used at the start of sentences and for the first letter of proper nouns Full stops must be used at the end of a sentence Question marks must be used at the end of a question Apostrophes should only be used for possession or omission Days of the week and months must be spelled correctly Key words must be spelled correctly
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In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
the tests for the common gases and tests and observations for negative ions; how to identify unknown compounds using a series of ions tests; how to describe the main processes of flame emission spectroscopy and interpret results from flame emission spectroscopy when data is given.		Chemical Analysis	PPQ on ion tests

In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
the theory for the development of the Earth's atmosphere; how human activity can change the proportion of greenhouse gases in the atmosphere; the definition of carbon footprint with examples of how a carbon footprint can be reduced; how to explain how atmospheric pollutants are formed.		Climate Change	Retrieval Questions ion tests and chromatography

In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
the definition of potable water, description of how potable water is made from ground water and desalination; how to describe the advantages and disadvantages of desalination by reverse osmosis and distillation; how to test if water is pure via pH test, dissolved solids; how to describe how to purify water via distillation; the main processes in sewage treatment.		Potable Water	PPQ on Earth's Atmosphere

In LP3.4, I will know:	27/01/25 - (WK 1)	Key Vocabulary	Homework
the processes of Phyto mining and bioleaching; how to evaluate products in detail using LCAs. Extended Task.		Life Cycle Assessment	Retrieval Questions based on water treatment

In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
how different corrosion prevention techniques work; how to evaluate an alloy in terms of its properties and uses; how thermosetting plastics and thermosoftening plastics are different in terms of structure and bonding and compare quantitatively the physical properties of glass and clay ceramics, polymers, composites, and metals.		Corrosion	PPQ on life cycle assessment

In LP3.6, I will know:	10/02/25 - (WK 1)	Key Vocabulary	Homework
how to explain the key aspects of the Haber Process and the importance of The Haber Process in fertiliser manufacture.		Haber Process	Retrieval Questions based on materials science

LP3 RLW, I will:	24/02/25 - (WK 2)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			

In LP3.7, I will know:	03/03/25 - (WK 1)	Key Vocabulary	Homework
how to explain the chemical and physical properties of polymers; how to explain the key aspects of the Haber Process and how fertilisers are made. Extended Task.		Fertiliser	Retrieval Questions based on properties of glass, ceramics and composites

Resources to support learning:	Resource booklet, Knowledge organiser, BBC GCSE Bitesize, Free GCSE Science videos on YOUTUBE. COGNITO Science		
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FFET Award Challenge for this Learning Programme:	LP3 Year 11 Science: Create a Science revision timetable		
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