

Landau Learner Curriculum Overview

Subject: Science

Director of Learning: DDB

Year: 11

Curriculum organisation				
Students are taught in groups based on ability for the equivalent of 5 single session per week. Most students follow the AQA Combined Science pathway, which includes Biology, Chemistry and Physics and is the equivalent of 2 GCSEs or some students follow the AQA Separate Science pathway; resulting in 1 GCSE in each of Biology, Chemistry and Physics.				
What topics will students be studying this year? Includes links to National Curriculum, Curriculum Intent and Prior Related Learning*				
Term 1:	Term 2:	Term 3:	Term 4:	Term 5:
<ul style="list-style-type: none"> Inheritance, variation and evolution Quantitative Chemistry Magnetism and Electromagnetism Interpreting data and drawing graphs Mathematical skills 	<ul style="list-style-type: none"> Magnetism and Electromagnetism Inheritance, variation and evolution Using resources Interpreting data and drawing graphs Quantitative Chemistry Mathematical skills 	<ul style="list-style-type: none"> Space Physics Deepening Scientific knowledge Applying scientific knowledge Working scientifically and required practicals Revision techniques 	<ul style="list-style-type: none"> Deepening Scientific knowledge Applying scientific knowledge Working scientifically and required practicals Revision techniques 	
<p>Links: Prior learning KS4 - Knowledge of theory of evolution and genetics; knowledge of reacting substances; Knowledge of magnetism and electrical circuits</p> <p>GCSE Specification: <i>Combined Science</i> – Inheritance, variation and evolution, Quantitative Chemistry, Magnetism <i>Separate Science</i> – Inheritance, variation and evolution, Quantitative Chemistry, Magnetism</p> <p>Curriculum Intent: Development of knowledge, literacy, numeracy and practical skills. Students are equipped to think critically about the world around them and aware of the social, economic and ethical issues.</p>	<p>Links: Prior learning KS4 - Knowledge of theory of evolution and genetics; knowledge of renewable and non-renewable energy sources; Knowledge of magnetism and electrical circuits</p> <p>GCSE Specification: <i>Combined Science</i> – Magnetism and Electromagnetism; Inheritance, variation and evolution, using resources <i>Separate Science</i> – Magnetism and Electromagnetism; Inheritance, variation and evolution, using resources</p> <p>Curriculum Intent: Development of knowledge, literacy, numeracy and practical skills. Students are equipped to think critically about the world around them and aware of the social, economic and ethical issues.</p>	<p>Links: Prior learning KS4 - Knowledge of our solar system</p> <p>GCSE Specification: <i>Separate Science</i> – Space Physics</p> <p>Curriculum Intent: Development of knowledge, literacy, numeracy and practical skills. Students are equipped to think critically about the world around them and aware of the social, economic and ethical issues.</p>	<p>Links: Prior learning KS4 - Development of all scientific knowledge</p> <p>GCSE Specification: Develop knowledge, understanding and skills from whole GCSE curriculum</p> <p>Curriculum Intent: Development of knowledge, literacy, numeracy and practical skills. Students are equipped to think critically about the world around them and aware of the social, economic and ethical issues.</p>	
Equipment needed for sessions:		What can you do to support your child?		
<ul style="list-style-type: none"> Science exercise book. CGP Science revision guide (Combined Science or Biology, Chemistry and Physics). Their Science teacher will provide worksheets and information that are being used in session. 		<ul style="list-style-type: none"> Encourage your child to regularly read their CGP Science revision guide. Encourage your child to complete the homework tasks they are set by their Science teachers to a high standard, asking them to show you their finished work. Encourage your child to complete any set tasks on Educake, and encourage them to complete additional questions they can set themselves. Purchase CGP past paper packs and revision flashcards. 		
How will learning be assessed and progress measured?		Extension and enrichment activities:		
<ul style="list-style-type: none"> Trial examinations carried out at selected points during the year. End of topic summative assessments. Marking of homework/written assessments is carried out on a regular basis in line with the College marking policy. Regular peer and self-marking. 		<ul style="list-style-type: none"> Science clinic extension – every week on Monday. 		