



St Augustine's Catholic High School & Sixth Form

Curriculum Overview 2021 – 2022

Applied Science Key Stage 5



Curriculum Overview

Applied Science

Autumn Term

	Y12	Y13
Autumn 1	<p>Content: Unit 1 - Principles of Applications of Science</p> <p>Why am I learning this? <i>(ie substantive content/link to previous work)</i></p> <p>They will learn fundamental scientific knowledge and understanding in the three disciplines of Biology, Chemistry and Physics which they will be examined on in the summer term.</p>	<p>Content: Unit 8 - Physiology of Human Body Systems</p> <p>Why am I learning this? <i>(ie substantive content/link to previous work)</i></p> <p>In Year 13 students will continue to develop their skills in assignment writing and analysis and undertake 3 assignments based around the human body, along with projects, practical observation and time-constrained assessments.</p>
	<p>Assessment Focus</p> <p>Deep assessment: - Mock exam at the end of the unit – December of each academic year</p> <p>Formative / maintenance assessment: Low stakes assessments through the specialisms and assessed on key points within each specialism</p>	<p>Assessment Focus</p> <p>Deep assessment: Formal internally assessed assignment</p> <p>Formative / maintenance assessment: First and final submission of the submitted assignments</p>
	<p>Content: Unit 1 - Principles of Applications of Science</p> <p>Why am I learning this? <i>(ie substantive content/link to previous work)</i></p> <p>Continuation of unit 1 delivery from the previous half term. The unit must be completed by the end of December</p>	<p>Content: Unit 8 - Physiology of Human Body Systems</p> <p>Why am I learning this? <i>(ie substantive content/link to previous work)</i></p> <p>Continuation of unit 8 delivery from the previous half term. The unit must be completed by the end of December</p>
Termly themes	<p>Links to Gospel Values/vocations: Service and sacrifice – Research technicians in labs</p> <p>Enrichment: Guest speaker from a research lab in the local area</p>	<p>Links to Gospel Values/vocations: Service and sacrifice – Doctors and nurses in the NHS</p> <p>Enrichment: Video clips surgical procedures from the NHS and other medical bodies.</p>

Spring Term

	Y12	Y13
Spring 1	Content: Unit 2 - Practical Scientific Procedures and Techniques	Content: Unit 3 - Scientific Investigation Skills
	Why am I learning this? (<i>ie substantive content/link to previous work</i>) Students will learn practical techniques used in industry and be assessed on their competency in the laboratory as well as their understanding of the scientific technique by a range of assignments, marked internally.	Why am I learning this? (<i>ie substantive content/link to previous work</i>) Students develop their scientific skill repertoire and these will be assessed in externally set assessment tasks which are carried out over a 3 week period. Learners will produce evidence in a variety of different forms and including, written reports, graphs, along with projects, practical observation and time-constrained assessments.
	Assessment Focus Deep assessment: Formal internally assessed assignment Formative / maintenance assessment: First and final submission of the submitted assignments	Assessment Focus Deep assessment: Y13 mock paper on unit 3 in the spring term Formative / maintenance assessment: Mini investigations and skills assessments that are linked to an investigation
Spring 2	Content: Unit 2 - Practical Scientific Procedures and Techniques	Content: Unit 3 - Scientific Investigation Skills
	Why am I learning this? (<i>ie substantive content/link to previous work</i>) Students will continue to learn practical techniques used in industry and be assessed on their competency in the laboratory as well as their understanding of the scientific technique by a range of assignments, marked internally.	Why am I learning this? (<i>ie substantive content/link to previous work</i>) Students will continue to develop their scientific skill repertoire and these will be assessed in externally set assessment tasks which are carried out over a 3 week period. Learners will produce evidence in a variety of different forms and including, written reports, graphs, along with projects, practical observation and time-constrained assessments.
	Assessment Focus Deep assessment: Formal internally assessed assignment Formative / maintenance assessment: First and final submission of the submitted assignments	Assessment Focus Deep assessment: Additional Y13 mock paper on unit 3 Formative / maintenance assessment: Mini investigations and skills assessments that are linked to an investigation
Termly themes	Links to Gospel Values/vocations: Service and sacrifice – Police force working on cases that use chromatography analysis skills to determine outcomes	Links to Gospel Values/vocations: Service and sacrifice – Research technicians in labs
	Enrichment: Past student external speaker on careers in the NHS	Enrichment: Access to literature and science library

Summer Term

	Y12	Y13
Summer 1	<p>Content: Revisit unit 1</p> <p>Why am I learning this? (<i>ie substantive content/link to previous work</i>) <i>Revision for the unit 1 externally set papers this half term</i></p>	<p>Content: Unit 3 - Scientific Investigation Skills</p> <p>Why am I learning this? (<i>ie substantive content/link to previous work</i>) <i>Revision for the unit 3 externally set paper this half term</i></p>
	<p>Assessment Focus Deep assessment: External exams</p> <p>Formative / maintenance assessment: Sample papers and skills in readiness for the exams</p>	<p>Assessment Focus Deep assessment: External exam</p> <p>Formative / maintenance assessment: Sample papers and investigations in readiness for the exam</p>
Summer 2	<p>Content: Unit 2 - Practical Scientific Procedures and Techniques</p> <p>Why am I learning this? (<i>ie substantive content/link to previous work</i>)</p> <p>Students will continue to learn practical techniques used in industry and be assessed on their competency in the laboratory as well as their understanding of the scientific technique by a range of assignments, marked internally.</p>	<p>Content: N/A</p> <p>Why am I learning this? (<i>ie substantive content/link to previous work</i>)</p> <p>N/A</p>
	<p>Assessment Focus Deep assessment: Formal internally assessed assignment</p> <p>Formative / maintenance assessment: First and final submission of the submitted assignments</p>	<p>Assessment Focus Deep assessment: N/A</p> <p>Maintenance assessment: N/A</p>
Termly themes	<p>Links to Gospel Values/vocations: Linking each topic to relevant careers in introduction lessons. Faithfulness and integrity- resilience in revision and acting on feedback given.</p>	<p>Links to Gospel Values/vocations: Linking each topic to relevant careers in introduction lessons. Faithfulness and integrity- resilience in revision and acting on feedback given.</p>
	<p>Enrichment: access to literature and science library</p>	<p>Enrichment: Access to literature and science library</p>