

**St Bede's Catholic Voluntary Academy**

**Curriculum Overview: Science**

	<b>Advent 1</b>	<b>Advent 2</b>	<b>Lent 1</b>	<b>Lent 2</b>	<b>Pentecost 1</b>	<b>Pentecost 2</b>
<b>Year 7</b>	<p><b>Introduction to science</b></p> <p><b>Organisms 1 - Movement and cells</b></p> <p><b>Matter 1 -Particle model</b></p>	<p><b>Matter 1 – Separating mixtures</b></p> <p><b>Electromagnetism 1</b> - Electric circuits</p>	<p><b>Energy 1 - Energy costs and transfer</b></p> <p><b>Reactions 1 - Metals and non-metals and pH</b></p>	<p><b>Genes 1- Variation and human reproduction</b></p> <p><b>Earth 1- Earth structure and the universe</b></p>	<p><b>Forces 1 -Speed and gravity</b></p> <p><b>Waves 1- Sound</b></p>	<p><b>Waves 1- Light</b></p> <p><b>Ecosystems 1- Interdependence and plant reproduction</b></p>
<b>Year 8</b>	<p><b>Practical skills</b></p> <p><b>Waves 2 wave effects and properties</b></p> <p><b>Energy 2 work done, heating and cooling</b></p>	<p><b>Energy 2 – work done, heating and cooling</b></p> <p><b>Reactions 1 +2 – chemical energy and types of reaction</b></p>	<p><b>Forces 2 – contact forces and pressure</b></p> <p><b>Electromagnets 2 – electromagnets and magnetism</b></p>	<p><b>Matter 2 – Periodic table and elements</b></p> <p><b>Organisms 2 – Breathing and digestion</b></p>	<p><b>Ecosystems 2 – photosynthesis and respiration</b></p> <p><b>Earth 1 and 2 – climate and earths resources</b></p>	<p><b>Earth 2 - Climate and earths resources</b></p> <p><b>Genes 2 –Evolution and inheritance</b></p>
<b>Year 9</b>	<b>Cell Biology</b>	<b>Atomic structure</b>	<b>Bonding structure and properties</b>	<b>Bioenergetics</b>	<p><b>Energy</b></p> <p><b>Organisation</b></p>	<b>Organisation</b>

<b>4 lessons/week</b> <b>If class is split</b> <b>Teacher 1 – T1</b> <b>Teacher 2 - T2</b>	<b>Atomic structure</b>	<b>Atomic structure and radioactivity</b>  <b>Particle model</b>	<b>Bioenergetics</b>	<b>Energy changes</b>  <b>Energy</b>		
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**Trilogy**

	<b>Advent 1</b>	<b>Advent 2</b>	<b>Lent 1</b>	<b>Lent 2</b>	<b>Pentecost 1</b>	<b>Pentecost 2</b>
<b>Year 10</b>	<p><b>Infection &amp; response B3 T1</b></p> <p><b>Quantitative chemistry C3 T2</b></p> <p><b>Chemical changes C4 T2</b></p>	<p><b>Chemical changes C4 T2</b></p> <p><b>Electricity P2 T2</b></p>	<p><b>Rates and equilibrium C6 T1</b></p> <p><b>Chemical analysis C8 T1</b></p> <p><b>Chemistry of the atmosphere and water C9 and 10 T1</b></p>	<p><b>Chemistry of the atmosphere and water C9 and 10 T1</b></p> <p><b>Ecology B7 T1</b></p>	<p><b>Organic chemistry C7 T2</b></p> <p><b>Forces P5 T2</b></p>	<p><b>Forces P5 T2</b></p>
<b>Year 11</b>	<p><b>Organic C7 T1</b></p> <p><b>Forces P5 T1</b></p>	<p><b>Waves P6 T1</b></p> <p><b>Magnetism P7 T1</b></p> <p><b>Preparation for mock exams paper 1 T1 and 2</b></p>	<p><b>Homeostasis and Response B5 T2</b></p> <p><b>Inheritance, variation and evolution B6 T2</b></p>	<p><b>Inheritance, variation and evolution B6 T2</b></p> <p><b>Preparation for exams T1 and T2</b></p>	<p><b>Required practical revision</b></p> <p><b>Preparation for exams T1 and T2</b></p>	

**Biology**

	<b>Advent 1</b>	<b>Advent 2</b>	<b>Lent 1</b>	<b>Lent 2</b>	<b>Pentecost 1</b>	<b>Pentecost 2</b>
<b>Year 11</b>	<p><b>Ecology B7 T1</b></p> <p><b>B1 Review T2</b></p>	<p><b>Ecology B7 T1</b></p> <p><b>B1 Review T2</b></p> <p><b>Preparation for mock exams paper 1 T1 and T2</b></p>	<p><b>Preparation for mock exams paper 2 T1 and T2</b></p> <p><b>Complete paper 2 required practicals T1 and T2</b></p>	<p><b>Feedback and address areas of weakness for paper 2 mock T1 and T2</b></p> <p><b>Complete Required practicals paper 1</b></p> <p><b>Revision of paper 1 topics T1 and T2</b></p>	<b>Past papers T1 and T2</b>	

**Chemistry**

<b>Year 11</b>	<b>C7 Organic Chemistry</b>	<p><b>C7 Organic chemistry</b></p> <p><b>Preparation for mock exams paper 1</b></p>	<p><b>Preparation for paper 2 mock</b></p> <p><b>Complete paper 2 required practicals</b></p> <p><b>Exam questions linking to required practicals</b></p> <p><b>Review of C3 and C5</b></p>	<p><b>Complete Required practicals paper 1</b></p> <p><b>Exam questions linking to the required practicals</b></p> <p><b>Past papers</b></p> <p><b>Review of C7 and C8</b></p>	<b>Final revision and exam preparation</b> <b>Past papers</b>	
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## Physics

<b>Year 11</b>	<b>P6 Waves To continue and review</b>	<b>P8 review (Taught during lock down)  Revision of Required practicals paper 1 Exam preparation P1-P4</b>	<b>Revision of paper 2 required practicals  Exam Preparation P5-P8</b>	<b>Focussed revision for papers 1 and 2 Past papers</b>	<b>Focussed revision for papers 1 and 2 Past papers</b>	
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