

## **St Bede's Catholic Voluntary Academy**

### **Curriculum Overview: Science**

KS3 Science consists of 3 rotations which are 12 weeks long. All students will study each rotation which will be delivered by different specialised teachers. The order in which the rotations are delivered is dependent upon which set the student is in. Students will be assessed at the end of each rotation.

At KS4, if a class has two teachers, T1 and T2 refers to what each teacher will deliver.

	Rotation 1	Rotation 2	Rotation 3
Year 7	<b>Biology 1 Rotation</b>  Organisms 1 Genes 1 Ecosystems 1	<b>Chemistry 1 Rotation</b>  Matter 1 Reactions 1 The Earth and Universe 1	<b>Physics 1 Rotation</b>  Energy 1 Electricity and Electromagnets 1
Year 8	<b>Biology 2 Rotation</b>  Organisms 2 Genes 2 Ecosystems 2	<b>Chemistry 2 Rotation</b>  Matter 2 Reactions 2 The Earth and Universe 2	<b>Physics 2 Rotation</b>  Energy 2 Electricity and Electromagnets 2
Year 9	<b>Biology Rotation</b>  Organisation B2 Bioenergetics B4	<b>Chemistry Rotation</b>  Atomic Structure and Periodic Table C1 Bonding, Structure and Properties of Matter C2 Energy Changes C5	<b>Mixed Unit Rotation</b>  Cell Biology B1 Particle Model of Matter P3 Atomic Structure and Radioactivity P4

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Trilogy

	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Year 10	<p>Infection &amp; response B3 T1</p> <p>Quantitative chemistry C3 T2</p> <p>Chemical changes C4 T2</p>	<p>Chemical changes C4 T2</p> <p>Electricity P2 T2</p>	<p>Rates and equilibrium C6 T1</p> <p>Chemical analysis C8 T1</p> <p>Chemistry of the atmosphere and water C9 and 10 T1</p>	<p>Chemistry of the atmosphere and water C9 and 10 T1</p>	<p>Ecology B7 T1</p>	<p>Ecology B7 T1</p>
Year 11	<p>Organic C7 T1</p>	<p>Waves P6 T1</p>	<p>Homeostasis and Response B5 T2</p>			

	<b>Forces P5 T1</b>	<b>Magnetism P7 T1</b>  <b>Preparation for mock exams paper 1 T1 and 2</b>	<b>Inheritance, variation and evolution B6 T2</b>	<b>Inheritance, variation and evolution B6 T2</b>  <b>Preparation for exams T1 and T2</b>	<b>Required practical revision</b>  <b>Preparation for exams T1 and T2</b>	
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## 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 10</b>	<b>Infection and Response B3</b>	<b>Infection and Response B3</b>	<b>Homeostasis and Response B5</b>	<b>Homeostasis and Response B5</b>	<b>Ecology B7</b>	<b>Ecology B7</b>  <b>End of Y10 Exam Preparation</b>

## Chemistry

	<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>	<b>The Rate and Extent of Chemical Change C6</b>	<b>Quantitative Chemistry C3</b>	<b>Chemical Changes C4</b>	<b>Chemical Changes C4</b>	<b>Chemical Analysis C8</b>  <b>Chemistry of the Atmosphere C9</b>	<b>Using Resources C10</b>  <b>End of Y10 Exam Preparation</b>

## Physics

	<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>	<b>Electricity P2</b>	<b>Electricity P2</b>	<b>Energy P1</b>	<b>Energy P1</b> <b>Forces P5</b>	<b>Forces P5</b>	<b>Forces P5</b>  <b>Magnetism and Electromagnetism P7</b>  <b>End of Y10 Exam Preparation</b>

### Biology

	<b>Advent 1</b>	<b>Advent 2</b>	<b>Lent 1</b>	<b>Lent 2</b>	<b>Pentecost 1</b>	
<b>Year 11</b>	<b>Inheritance, Variation and Evolution B6</b>	<b>Inheritance, Variation and Evolution B6</b>  <b>Y11 Mock Exam Preparation</b>	<b>Review Paper 1 content</b>	<b>Review Paper 2 Content</b>  <b>Paper 2 Mock Exam Preparation</b>	<b>GCSE preparation</b>	

### Chemistry

	<b>Advent 1</b>	<b>Advent 2</b>	<b>Lent 1</b>	<b>Lent 2</b>	<b>Pentecost 1</b>	
<b>Year 11</b>	<b>Organic Chemistry C7</b>	<b>Organic chemistry C7</b>  <b>Y11 Mock Exam Preparation</b>	<b>Preparation for paper 2 Mock Exam</b>  <b>Complete required practicals paper 2</b>	<b>Complete Required practicals paper 1</b>	<b>GCSE preparation</b>	

Physics

	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	
Year 11	P6 Waves	P6 waves  Y11 Mock Exam Preparation	P8 Spaces Physics  Preparation for Paper 2 Mock Exam	Focussed revision for papers 1 and 2  Past papers	GCSE Preparation	