



# Subject: Science

## Year 7 Curriculum Map



Term /Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>All students in Science follow a Core curriculum which is taught through mixed ability setting. This means that each individual lesson has sections aimed at Foundation and Developing Students with additional challenge tasks aimed at our Good and Exceptional Students.</b>						
Key knowledge and skills	Safety & Skills – safe working in science	7C7 – Structure of the Earth	7B9 – Plants & Food Chains	7C6 – Acids & Alkalis	7B10 - Genes	7C11 – The Universe
	7B8- Bodies – Movement & Cells					
	7P1 – Introduction to forces	7C5 – Particle Model – States of matter	7P2 - Magnetism	7P3 – Heating & Cooling	7P4 – Sound Waves	
Links to GCSE (OUP Separate Science Textbook Chapters)	Biology B1 Physics P8-11	Physics P6	Biology B16 Physics P15	Chemistry C5 Physics P2	Biology B10 Physics P12	Physics P16
Homework	Safety Task Sheet 7B8 Task Sheet 7P1 Task Sheet	7C7 Task Sheet 7C5 Task Sheet	7B9 Task Sheet 7P2 Task Sheet	7C6 Task Sheet 7P3 Task Sheet	7B10 Task Sheet 7P4 Task Sheet	7C11 Task Sheet
Responsible Teaching	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamp</li> <li>10. Stickers</li> </ol>					
Termly assessment content	<b>First 2 weeks</b> Baseline Assessment  <b>Assessment Week 1</b> Safety & Skills 7B8- Bodies 7P1 – Introduction to forces		<b>Assessment Week 2</b> 7B8 - Bodies 7P1 – Introduction to forces 7C7 – Structure of the Earth 7B9 – Plants & Food Chains 7C6 – Acids & Alkalis 7C5 – Particle Model 7P2 – Magnetism 7P3 – Heating & Cooling		<b>Assessment Week 3</b> All Year 7 Units of work	





# Subject: Science

## Year 8 Curriculum Map



Term/Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>All students in Science follow a Core curriculum which is taught through mixed ability setting. This means that each individual lesson has sections aimed at Foundation and Developing Students with additional challenge tasks aimed at our Good and Exceptional Students.</b>						
Key knowledge and skills	Skills review	8P1 – More Forces	8B9 Respiration & Photosynthesis	8C6 – Chemical Reactions	8P3 - Electricity	Maths skills transition Unit
	8B8- Organisms	8C5 Elements, Compounds & Mixtures	8C7 – Climate Change	8P2 – Pressure	8B10 - Evolution	
Links to GCSE (OUP Separate Science Textbook Chapters)	Biology B3-B4	Physics P8-11 Chemistry C1	Biology B9 - B10 Chemistry C13	Chemistry C5 Physics P11	Physics P4-P5 Biology B14-B15	Working Mathematically in Science
Homework	Skills Task Sheet 8B8 Task Sheet	8P1 Task Sheet 8C5 Task Sheet	8B9 Task Sheet 8C7 Task Sheet	8C6 Task Sheet 8P2 Task Sheet	8P3 Task Sheet 8B10 Task Sheet	How Science Works Task sheets
Responsive Teaching	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamp</li> <li>10. Stickers</li> </ol>					
Termly assessment content	<b>Assessment Week 1</b> Year 7 Content and Maths Skills		<b>Assessment Week 2</b> 8B8 - Organisms 8P1 –More forces 8C5 Elements, Compounds & Mixtures		<b>Assessment Week 3</b> 8B8 – Organisms 8P1 – Forces 8C5 – Elements, Compounds and Mixtures 8B9 – Respiration & Photosynthesis 8C7 – Climate Change 8C6 – Chemical Reactions 8P2 - Pressure	





# Subject: Science

## Year 9 Curriculum Map



Term/Focus	Autumn		Spring		Summer	
<p><b>All students in Year 9 Science follow a Core Curriculum. All units are transition units to prepare students for GCSE study. Classes are set which allows for teachers to adapt the challenge to the needs of the class. Foundation and Developing Students will work towards the Foundation Level GCSE Material, whilst our Good and Exceptional Students will be targeted with Higher Level GCSE material.</b></p>						
Key knowledge and skills	Maths Skills transition Unit	9P1 – Motion	9B10 - Interdependence	9P2 – Energy Resources	9P4- Light	9C7 – Earth’s Resources
		9B9 – Energy in Biology				
	9B8 – Advanced Cells	9C5 Periodic Table	9C6 – Atomic Structure	9P3 – Energy Transfers	9B11 – Ecology & Ecosystems	9C12 – Acids & Alkalis
Links to GCSE (OUP Separate Science Textbook Chapters)	Maths Skills in Science Biology B1	Physics -P9 Biology B8-B9 Chemistry C2	Biology B16 Chemistry C1	Physics P3 Physics P2	Physics P12 & P14 Biology B17-B18	Chemistry C14 Chemistry C5
Homework	Skills Task Sheet 9B8 Task Sheet	9P1 Task Sheet 9B9 Task Sheet 9C5 Task Sheet	9B10 Task Sheet 9C6 Task Sheet	9P2 Task Sheet 9P3 Task Sheet	9P4 Task Sheet 9B11 Task Sheet	9C7 Task Sheet 9C12 Task Sheet
Responsive Teaching	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamps</li> <li>10. Stickers</li> </ol>					
Termly assessment content	<b>Assessment Week 1</b> Mathematical & How Science Works Assessment		<b>Assessment Week 2</b> 9B8 – Cells 9P1 – Motion 9B9 – Energy in Biology 9C5 – Periodic Table 9P2 – Energy Resources 9C6 – Atomic Structure		<b>Assessment Week 3</b> 9B8 – Cells 9P1 – Motion 9B9 – Energy in Biology 9C5 – Periodic Table 9P2 – Energy Resources 9C6 – Atomic Structure 9P3 - Energy Transfers 9B10 - Interdependence	





# Subject: Combined Science

## Year 10 Curriculum Map



Term/Focus	Autumn		Spring		Summer	
<p><b>All students in Year 10 Science follow either Combined Science or Separate Science Courses. Combined Science is followed by 10L2, 10R2 &amp; 10R3. Classes are set which allows for teachers to adapt the challenge to the needs of the class. Most students will work towards the Foundation GCSE Exams in Science (Grades 1-5), some students may be identified as Higher Tier students based on in class Assessments, these will receive additional help to work towards the Higher Tier GCSE Exams in Science(Grades 4-9).</b></p>						
Key knowledge and skills (Topics are taught on rotation so each class may vary slightly from this general overview)	P4 - Electricity	P5 - Electricity in the Home	P7 - Radiation	P9 – Motion	C8 – Rates of Reaction	C12 - Analysis
	C4 – Quantitative Chemistry	C5 – Chemical Change	P8 – Forces in Balance	P10 Force & Motion	C9 – Hydrocarbons	
	B4 – Organising Plants & Animals	B5 – Communicable Diseases	B6 – Preventing Disease	B7 – Non-Communicable Diseases	B9 – Respiration	B10 – Human Nervous System
			C7 - Energy	B8 - Photosynthesis		
<b>Homework</b>	P4 Trilogy Homework Booklet C4 Trilogy Homework Booklet B4 Trilogy Homework Booklet P5 Trilogy Homework Booklet C5 Trilogy Homework Booklet B5 Trilogy Homework Booklet		P7 Trilogy Homework Booklet P8 Trilogy Homework Booklet P9 Trilogy Homework Booklet B6 Trilogy Homework Booklet B7 Trilogy Homework Booklet B8 Trilogy Homework Booklet C7 Trilogy Homework Booklet		C8 Trilogy Homework Booklet C9 Trilogy Homework Booklet C12 Trilogy Homework Booklet B9 Trilogy Homework Booklet B10 Trilogy Homework Booklet P10 Trilogy Homework Booklet	
<b>Responsive Teaching –</b>	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamps</li> <li>10. Half Termly Intervention Tests</li> </ol>					
<b>Termly assessment content</b>	<b>Assessment Week 1</b> Year 9 Content: B1 – Cells B2 – Cell Division B3 – Digestive System C1 – Atoms C2 - Periodic Table C3 – Structure & Bonding P1 – Energy P2 – Heat Transfer P3 – Energy Resources P6 – Molecules & Matter		<b>Assessment Week 2</b> As per Assessment 1 also: P4 – Electricity P5 – Electricity in the Home P7 – radiation C4 – Quantitative Chemistry C5 – Chemical Changes C6 - Electrolysis B4 – Organising Plants & Animals B5 – Communicable Disease		<b>Assessment Week 3</b> As per Assessment 2 then also: P8 – Forces in Balance P9 – Motion C7 – Energy B6 – Preventing Disease B7 – Non-Communicable Disease B8 – Photosynthesis B9 - Respiration	





# Subject: Separate Science Year 10 Curriculum Map



Term Focus	Science	Autumn	Spring	Summer				
<p><b>All students in Year 10 Science follow either Combined Science or Separate Science Courses. Separate Science is followed by 10L1 and 10R1. Most students will work towards the Higher Tier GCSE Exams in 3 Sciences (Grades 4-9). Some students may be identified by assessment as needing to move into a combined Science group to allow them to follow Combined Science at a Higher Tier Level. This is still at grades 4-9 but with a reduced content and only 2 GCSE exam passes.</b></p>								
Key	<b>Biology</b>	B4 – Organising Plants & Animals	B5 – Communicable Diseases	B6 – Preventing Disease	B7 – Non-Communicable Diseases	B8 – Photosynthesis	B9 – Respiration	B10 – Human Nervous System
	<b>Chemistry</b>	C4 – Quantitative Chemistry	C5 – Chemical Change	C6 - Electrolysis	C7 – Energy	C8 – Rates of Reaction	C9 – Hydrocarbons	C12 - Analysis
	<b>Physics</b>	P4 - Electricity	P5 - Electricity in the Home	P7 - Radiation	P8 – Forces in Balance	P9 – Motion	P10 - Force & Motion	P11 - Pressure
Home work	<b>Biology</b>	B4 Homework Booklet B5 Homework Booklet		B6 Homework Booklet B7 Homework Booklet B8 Homework Booklet		B9 Homework Booklet B10 Homework Booklet		
	<b>Chemistry</b>	C4 Homework Booklet C5 Homework Booklet C6 Homework Booklet		C7 Homework Booklet C8 Homework Booklet		C8 Homework Booklet C12 Homework Booklet		
	<b>Physics</b>	P4 Homework Booklet P5 Homework Booklet P7 Homework Booklet		P8 Homework Booklet P9 Homework Booklet P10 Homework Booklet		P10 Homework Booklet P11 Homework Booklet		
<b>Responsive Teaching</b>	<ol style="list-style-type: none"> <li>Summative - End of unit tests every 2/4 weeks</li> <li>Summative – Exam Style Starter questions</li> <li>Formative - Highlighters to indicate areas of strength and areas for development</li> <li>Verbal Feedback</li> <li>Questioning</li> <li>Practical Skills</li> <li>Quizzes - Thumbs up/Thumbs down</li> <li>House Point Stamps</li> <li>Half Termly Intervention Tests</li> </ol>							
<b>Termly assessment content</b>	<b>Science</b>	<b>Assessment Week 1</b>	<b>Assessment Week 2</b>		<b>Assessment Week 3</b>			
	<b>Biology</b>	B1 – Cells B2 – Cell Division B3 – Digestive System	As per term 1 and B4 – Organising Plants & Animals B5 – Communicable Disease		As per term 2 and B6 – Preventing Disease B7 – Non-Communicable Disease B8 – Photosynthesis B9 - Respiration			
	<b>Chemistry</b>	C1 – Atoms C2 - Periodic Table C3 – Structure & Bonding	As per term 1 and C4 – Quantitative Chemistry C5 – Chemical Changes C6 - Electrolysis		As per term 2 and C7 - Energy			
	<b>Physics</b>	P1 – Energy P2 – Heat Transfer P3 – Energy Resources P6 – Molecules & Matter	As per Term1 and P4 – Electricity P5 – Electricity in the Home P7 – radiation		As per term 2 and P8 – Forces in Balance P9 – Motion			



# Subject: Separate Science

## Year 11 Curriculum Map



Term/Focus	Science	Autumn	Spring	Summer		
<p><b>All students in Year 11 Science follow either Combined Science or Separate Science Courses. Separate Science is followed by 11L1 and 11R1. Most students will work towards the Higher Tier GCSE Exams in the 3 Sciences (Grades 4-9). However following mock examinations those students not achieving Level 5 or above will be moved into a combined Science group to allow them to follow Combined Science at a Higher Tier Level, this is still at grades 4-9 but with a reduced content and only 2 GCSE exam passes.</b></p>						
Key knowledge and skills (Topics are taught on rotation so each class may vary slightly from this general overview)	Biology	B10 – Human Nervous System	B11 – Hormonal Coordination	B14 - Variation	B16 - Adaptations	B18 Ecology
		B12 – Homeostasis in Action	B13 - Reproduction	B15 - Genetics	B17 - Ecosystems	
	Chemistry	C8 – Rates of Reaction	C12 - Analysis	C13 - Atmosphere	C14 – Earth's Resources	C15 – Using Resources
		C9-11 – Organic Chemistry				
Physics	P10 - Force & Motion	P12 - Waves	P14 - Light	P15 - Magnetism	P16 - Space	
	P11 - Pressure	P13 – Electromagnetic Spectrum				
Homework	Biology	B10 Homework Booklet B12 Homework Booklet B11 Homework Booklet B13 Homework Booklet		B14 Homework Booklet B15 Homework Booklet B16 Homework Booklet B17 Homework Booklet		B18 Homework Booklet
	Chemistry	C8 Homework Booklet Organic Homework Booklet C12 Homework Booklet		C13 Homework Booklet C14 Homework Booklet		C15 Homework Booklet
	Physics	P10 Homework Booklet P11 Homework Booklet P12 Homework Booklet		P13 Homework Booklet P14 Homework Booklet P15 Homework Booklet		P16 Homework Booklet
Responsive Teaching –	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamps</li> <li>10. Fortnightly Intervention Tests</li> </ol>					
Termly assessment content	Science	Mock Exams November		Mock Exams March		
	Biology	Paper 1 – Unis B1 – B9		Paper 2 – Units B10 – B14		
	Chemistry	Paper 1 – Units C1 – C7		Paper 2 – Units C8 – C13		
	Physics	Paper 1 - Units P1 – P7		Paper 2 – Units P8 – P15		





# Subject: Combined Science

## Year 11 Curriculum Map



Term/Focus	Autumn		Spring		Summer
<p><b>All students in Year 11 Science follow either Combined Science or Separate Science Courses. Combined Science is followed by 11L2, 11R2 &amp; 11R3. Classes are set which allows for teachers to adapt the challenge to the needs of the class. Most students will work towards the Foundation GCSE Exams in Science (Grades 1-5), some students may be identified as Higher Tier students based on in class Assessments, these will receive additional help to work towards the Higher Tier GCSE Exams in Science(Grades 4-9).</b></p>					
<b>Key knowledge and skills (Topics are taught on rotation so each class may vary slightly from this general overview)</b>	<b>B13 – Reproduction</b>	<b>B15 - Evolution</b>	<b>B16 – Adaptation</b>	<b>B18 - Ecology</b>	<b>Revision across all Science topics</b>
	<b>B14 Variation</b>		<b>B17 - Ecosystems</b>		
	<b>C8 – Rates of Reaction</b>	<b>C12 - Analysis</b>	<b>C14 – Earth’s Resources</b>		
	<b>C9 – Hydrocarbons</b>	<b>C13 - Atmosphere</b>			
	<b>P10 – Force &amp; Motion</b>	<b>P13 – Electromagnetic Spectrum</b>	<b>P14 - Magnetism</b>		
<b>P12 - Waves</b>					
<b>Homework</b>	B13 Trilogy Homework Booklet B14 Trilogy Homework Booklet B15 Trilogy Homework Booklet C8 Trilogy Homework Booklet C9 Trilogy Homework Booklet C12 Trilogy Homework Booklet C13 Trilogy Homework Booklet P10 Trilogy Homework Booklet P12 Trilogy Homework Booklet P13 Trilogy Homework Booklet		B16 Trilogy Homework Booklet B17 Trilogy Homework Booklet B18 Trilogy Homework Booklet C14 Trilogy Homework Booklet P14 Trilogy Homework Booklet		Past Paper Question Packs
<b>Responsive Teaching –</b>	<ol style="list-style-type: none"> <li>1. Summative - End of unit tests every 2/4 weeks</li> <li>2. Summative – Exam Style Starter questions</li> <li>3. Formative - Highlighters to indicate areas of strength and areas for development</li> <li>4. Verbal Feedback</li> <li>5. Questioning</li> <li>6. Practical Skills</li> <li>7. Quizzes</li> <li>8. Thumbs up/Thumbs down</li> <li>9. House Point Stamps</li> <li>10. Fortnightly Intervention Tests</li> </ol>				
<b>Termly assessment content</b>	<b>Science</b>	<b>Mock Exams November</b>		<b>Mock Exams March</b>	
	<b>Biology</b>	<b>Paper 1 – Units B1 – B9</b>		<b>Paper 2 – Units B10 – B13</b>	
	<b>Chemistry</b>	<b>Paper 1 – Units C1 – C7</b>		<b>Paper 2 – Units C8 – C13</b>	
	<b>Physics</b>	<b>Paper 1 - Units P1 – P7</b>		<b>Paper 2 – Units P8 – P15</b>	

