Subject: Science
Year 7 Curriculum Map

Term /Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
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.						
Key knowledge and skills	**Safety & Skills – safe working in science** **7B8- Bodies – Movement & Cells**	**7C7 – Structure of the Earth**	**7B9 – Plants & Food Chains**	**7C6 – Acids & Alkalis**	**7B10 - Genes**	**7C11 – The Universe**
	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
Responsive Teaching	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes 8. Thumbs up/Thumbs down 9. House Point Stamp 10. Stickers					
Termly assessment content	**First 2 weeks** Baseline Assessment **Assessment Week 1** Safety & Skills 7B8- Bodies 7P1 – Introduction to forces		**Assessment Week 2** 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		**Assessment Week 3** 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
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.						
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	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes 8. Thumbs up/Thumbs down 9. House Point Stamp 10. Stickers					
Termly assessment content	**Assessment Week 1** Year 7 Content and Maths Skills		**Assessment Week 2** 8B8 - Organisms 8P1 –More forces 8C5 Elements, Compounds & Mixtures		**Assessment Week 3** 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
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.			
Key knowledge and skills	**Maths Skills transition Unit** **9P1 – Motion** **9B9 – Energy in Biology** **9B10 - Interdependence** **9P2 – Energy Resources** **9P4- Light** **9C7 – Earth's Resources**		
	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	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes 8. Thumbs up/Thumbs down 9. House Point Stamps 10. Stickers			
Termly assessment content	**Assessment Week 1** Mathematical & How Science Works Assessment	**Assessment Week 2** 9B8 – Cells 9P1 – Motion 9B9 – Energy in Biology 9C5 – Periodic Table 9P2 – Energy Resources 9C6 – Atomic Structure	**Assessment Week 3** 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	
All students in Year 10 Science follow either Combined Science or Separate Science Courses. Combined Science is followed by 10L2, 10R2 & 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).						
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**		
Homework	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	
Responsive Teaching –	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes 8. Thumbs up/Thumbs down 9. House Point Stamps 10. Half Termly Intervention Tests					
Termly assessment content	**Assessment Week 1** 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		**Assessment Week 2** 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		**Assessment Week 3** 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		
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.									
Key	**Biology**	**B4 – Organising Plants & Animals**	**B5 – Communicable Diseases**		**B6 – Preventing Disease**	**B7 – Non-Communicable Diseases**	**B8 – Photosyn-thesis**	**B9 – Respiration**	**B10 – Human Nervous System**
	Chemistry	**C4 – Quantitative Chemistry**	**C5 – Chemical Change**	**C6 - Electrolysis**	**C7 – Energy**	**C8 – Rates of Reaction**		**C9 – Hydorcarbons**	**C12 - Analysis**
	Physics	**P4 - Electricity**	**P5 - Electricity in the Home**	**P7 - Radiation**	**P8 – Forces in Balance**	**P9 – Motion**		**P10 - Force & Motion**	**P11 - Pressure**
Home work	Biology	B4 Homework Booklet B5 Homework Booklet		B6 Homework Booklet B7 Homework Booklet B8 Homework Booklet			B9 Homework Booklet B10 Homework Booklet		
	Chemistry	C4 Homework Booklet C5 Homework Booklet C6 Homework Booklet		C7 Homework Booklet C8 Homework Booklet			C8 Homework Booklet C12 Homework Booklet		
	Physics	P4 Homework Booklet P5 Homework Booklet P7 Homework Booklet		P8 Homework Booklet P9 Homework Booklet P10 Homework Booklet			P10 Homework Booklet P11 Homework Booklet		
Responsive Teaching –	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes - Thumbs up/Thumbs down 8. House Point Stamps 9. Half Termly Intervention Tests								
Termly assessment content	**Science**	**Assessment Week 1**		**Assessment Week 2**			**Assessment Week 3**		
	Biology	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		
	Chemistry	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		
	Physics	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
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.						
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 P14Homework Booklet P15 Homework Booklet		P16 Homework Booklet
Responsive Teaching –	1. Summative - End of unit tests every 2/4 weeks 2. Summative – Exam Style Starter questions 3. Formative - Highlighters to indicate areas of strength and areas for development 4. Verbal Feedback 5. Questioning 6. Practical Skills 7. Quizzes 8. Thumbs up/Thumbs down 9. House Point Stamps 10. Fortnightly Intervention Tests					

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

<table>
<tr><th>Term/Focus</th><th colspan="2">Autumn</th><th colspan="2">Spring</th><th>Summer</th></tr>
<tr><td colspan="6">All students in Year 11 Science follow either Combined Science or Separate Science Courses. Combined Science is followed by 11L2, 11R2 & 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).</td></tr>
<tr><td rowspan="5">Key knowledge and skills (Topics are taught on rotation so each class may vary slightly from this general overview)</td><td>B13 – Reproduction</td><td rowspan="2">B15 - Evolution</td><td>B16 – Adaptation</td><td rowspan="2">B18 - Ecology</td><td rowspan="5">Revision across all Science topics</td></tr>
<tr><td>B14 Variation</td><td>B17 - Ecosystems</td></tr>
<tr><td>C8 – Rates of Reaction</td><td>C12 - Analysis</td><td colspan="2" rowspan="2">C14 – Earth’s Resources</td></tr>
<tr><td>C9 – Hydrocarbons</td><td>C13 - Atmosphere</td></tr>
<tr><td>P10 – Force & Motion</td><td>P13 – Electromagnetic Spectrum</td><td colspan="2" rowspan="2">P14 - Magnetism</td></tr>
<tr><td></td><td>P12 - Waves</td><td></td><td></td><td></td></tr>
<tr><td>Homework</td><td colspan="2">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</td><td colspan="2">B16 Trilogy Homework Booklet
B17 Trilogy Homework Booklet
B18 Trilogy Homework Booklet
C14 Trilogy Homework Booklet
P14 Trilogy Homework Booklet</td><td>Past Paper Question Packs</td></tr>
<tr><td colspan="2">Responsive Teaching –</td><td colspan="4">1. Summative - End of unit tests every 2/4 weeks
2. Summative – Exam Style Starter questions
3. Formative - Highlighters to indicate areas of strength and areas for development
4. Verbal Feedback
5. Questioning
6. Practical Skills
7. Quizzes
8. Thumbs up/Thumbs down
9. House Point Stamps
10. Fortnightly Intervention Tests</td></tr>
<tr><td colspan="2" rowspan="4">Termly assessment content</td><td>Science</td><td colspan="2">Mock Exams November</td><td>Mock Exams March</td></tr>
<tr><td>Biology</td><td colspan="2">Paper 1 – Unis B1 – B9</td><td>Paper 2 – Units B10 – B13</td></tr>
<tr><td>Chemistry</td><td colspan="2">Paper 1 – Units C1 – C7</td><td>Paper 2 – Units C8 – C13</td></tr>
<tr><td>Physics</td><td colspan="2">Paper 1 - Units P1 – P7</td><td>Paper 2 – Units P8 – P15</td></tr>
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