

**Qualification: AQA GCSE Combined Science - Trilogy**

 Link to specification: [www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464](http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 topics	<ul style="list-style-type: none"> <li>Investigative science skills</li> <li>Preparation for GCSE course</li> </ul>	<ul style="list-style-type: none"> <li>Cell biology.</li> <li>Atomic structure and the periodic table.</li> </ul>	<ul style="list-style-type: none"> <li>Energy.</li> <li>Organisation.</li> </ul>	<ul style="list-style-type: none"> <li>Bonding, structure and the properties of matter.</li> <li>The particle model of matter.</li> </ul>	<ul style="list-style-type: none"> <li>Infection and response.</li> <li>Energy changes.</li> </ul>	<ul style="list-style-type: none"> <li>Atomic structure.</li> </ul>
Assessment	IA - Quick tests/skills checks to check progress towards key concepts	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>
Year 9 Rationale	<ul style="list-style-type: none"> <li>GCSE Science begins in Year 9 so as to allow three years to complete the course. This permits more time to both explore the learning and to regularly revisit and consolidate the subject knowledge.</li> <li>The focus at the beginning of Year 9 will be on building a strong skills base in the students. Examples include graph-drawing, data interpretation and subject specific vocabulary regarding investigative science. Students are repeatedly required to demonstrate the competent use of such skills throughout the course.</li> <li>The students will spend the remainder of Year 9 learning six units of the GCSE subject content.</li> </ul>					
Year 10 topics	<ul style="list-style-type: none"> <li>Bioenergetics.</li> <li>Quantitative chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>Electricity.</li> <li>Homeostasis and response.</li> </ul>	<ul style="list-style-type: none"> <li>The rate and extent of chemical change.</li> <li>Forces.</li> </ul>	<ul style="list-style-type: none"> <li>Inheritance, variation and evolution.</li> </ul>	<ul style="list-style-type: none"> <li>Organic chemistry.</li> <li>Waves.</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry of the atmosphere.</li> </ul>
Assessment	IA - Quick tests/skills checks to check progress towards key concepts	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>
Year 10 Rationale	<ul style="list-style-type: none"> <li>Students will spend Year 10 learning the majority of the subject content for their chosen science GCSE.</li> <li>The focus of assessment will be on the content for the paper 1 examinations. This will be regularly reviewed throughout the year. Students will be encouraged to both make and use a variety of revision resources. They will practice GCSE style questions during lessons, for homework and as part of formal interim and key assessments. This will provide them with the opportunity to develop firm revision and examination skills throughout their chosen GCSE.</li> </ul>					
Year 11 topics	<ul style="list-style-type: none"> <li>Ecology.</li> <li>Chemical analysis.</li> </ul>	<ul style="list-style-type: none"> <li>Magnetism and electromagnetism.</li> <li>Using resources.</li> </ul>	<ul style="list-style-type: none"> <li>Exam preparation, consolidation and revision</li> </ul>			
Assessment	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>1x IA</li> <li>1x KA</li> </ul>	<ul style="list-style-type: none"> <li>Mocks as KA</li> </ul>			
Year 11 Rationale	<ul style="list-style-type: none"> <li>Students will finish learning the subject content for the paper 2 examinations.</li> <li>The focus will then be on preparing the students for their GCSE examinations. All of the subject content will be reviewed and the key skills will be practiced. A variety of structured revision activities will be used to allow students to identify areas for development and subsequently improve their skills and knowledge.</li> </ul>					

**Qualification: AQA GCSE Separate Sciences - Biology**

Link to specification: [www.aqa.org.uk/subjects/science/gcse/biology-8461](http://www.aqa.org.uk/subjects/science/gcse/biology-8461)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 topics	<ul style="list-style-type: none"> <li>Investigative science skills</li> <li>Preparation for GCSE course</li> </ul>	<ul style="list-style-type: none"> <li>Cell biology.</li> </ul>		<ul style="list-style-type: none"> <li>Organisation.</li> </ul>		<ul style="list-style-type: none"> <li>Infection and response.</li> </ul>
Assessment	<ul style="list-style-type: none"> <li>IA - Quick tests/skills checks to check progress towards key concepts</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>
Year 9 Rationale	<ul style="list-style-type: none"> <li>GCSE Biology begins in Year 9 so as to allow three years to complete the course. This permits more time to both explore the learning and to regularly revisit and consolidate the subject knowledge.</li> <li>The focus at the beginning of Year 9 will be on building a strong skills base in the students. Examples include graph-drawing, data interpretation and subject specific vocabulary regarding investigative science. Students are repeatedly required to demonstrate the competent use of such skills throughout the course.</li> <li>The students will spend the remainder of Year 9 learning three units of the GCSE Biology content.</li> </ul>					
Year 10 topics	<ul style="list-style-type: none"> <li>Bioenergetics.</li> </ul>		<ul style="list-style-type: none"> <li>Homeostasis and response.</li> </ul>		<ul style="list-style-type: none"> <li>Inheritance, variation and evolution.</li> </ul>	
Assessment	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>	
Year 10 Rationale	<ul style="list-style-type: none"> <li>Students will spend Year 10 learning three more units of the subject content for GCSE Biology.</li> <li>The focus of assessment will be on the content for the paper 1 examinations. This will be regularly reviewed throughout the year. Students will be encouraged to both make and use a variety of revision resources. They will practice GCSE style questions during lessons, for homework and as part of formal interim and key assessments. This will provide them with the opportunity to develop firm revision and examination skills throughout their chosen GCSE.</li> </ul>					
Year 11 topics	<ul style="list-style-type: none"> <li>Ecology.</li> </ul>		<ul style="list-style-type: none"> <li>Exam preparation, consolidation and revision</li> </ul>			
Assessment	<ul style="list-style-type: none"> <li>1 x IA</li> <li>At least 1 x KA</li> </ul>		<ul style="list-style-type: none"> <li>Mock exams as KA</li> </ul>			
Year 11 Rationale	<ul style="list-style-type: none"> <li>Students will finish learning the subject content for the paper 2 examinations.</li> <li>The focus will then be on preparing the students for their GCSE examinations. All of the subject content will be reviewed and the key skills will be practiced. A variety of structured revision activities will be used to allow students to identify areas for development and subsequently improve their skills and knowledge.</li> </ul>					

**Qualification: AQA GCSE Separate Sciences - Chemistry**

 Link to specification: [www.aqa.org.uk/subjects/science/gcse/chemistry-8462](http://www.aqa.org.uk/subjects/science/gcse/chemistry-8462)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 topics	<ul style="list-style-type: none"> <li>Investigative science skills</li> <li>Preparation for GCSE course</li> </ul>	<ul style="list-style-type: none"> <li>Atomic structure and the periodic table.</li> </ul>		<ul style="list-style-type: none"> <li>Bonding, structure and the properties of matter.</li> </ul>		<ul style="list-style-type: none"> <li>Energy changes.</li> </ul>
Assessment	<ul style="list-style-type: none"> <li>IA - Quick tests/skills checks to check progress towards key concepts</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>
Year 9 Rationale	<ul style="list-style-type: none"> <li>GCSE Chemistry begins in Year 9 so as to allow three years to complete the course. This permits more time to both explore the learning and to regularly revisit and consolidate the subject knowledge.</li> <li>The focus at the beginning of Year 9 will be on building a strong skills base in the students. Examples include graph-drawing, data interpretation and subject specific vocabulary regarding investigative science. Students are repeatedly required to demonstrate the competent use of such skills throughout the course.</li> <li>The students will spend the remainder of Year 9 learning three units of the GCSE Chemistry content.</li> </ul>					
Year 10 topics	<ul style="list-style-type: none"> <li>Quantitative chemistry.</li> </ul>		<ul style="list-style-type: none"> <li>The rate and extent of chemical change.</li> </ul>	<ul style="list-style-type: none"> <li>Organic chemistry.</li> </ul>		<ul style="list-style-type: none"> <li>Chemistry of the atmosphere.</li> </ul>
Assessment	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>
Year 10 Rationale	<ul style="list-style-type: none"> <li>Students will spend Year 10 learning four more units of the subject content for GCSE Chemistry.</li> <li>The focus of assessment will be on the content for the paper 1 examinations. This will be regularly reviewed throughout the year. Students will be encouraged to both make and use a variety of revision resources. They will practice GCSE style questions during lessons, for homework and as part of formal interim and key assessments. This will provide them with the opportunity to develop firm revision and examination skills throughout their chosen GCSE.</li> </ul>					
Year 11 topics	<ul style="list-style-type: none"> <li>Chemical analysis.</li> </ul>	<ul style="list-style-type: none"> <li>Using resources.</li> </ul>	<ul style="list-style-type: none"> <li>Exam preparation, consolidation and revision</li> </ul>			
Assessment	<ul style="list-style-type: none"> <li>1xIA</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>	<ul style="list-style-type: none"> <li>Mock exams as KA</li> </ul>			
Year 11 Rationale	<ul style="list-style-type: none"> <li>Students will finish learning the subject content for the paper 2 examinations.</li> <li>The focus will then be on preparing the students for their GCSE examinations. All of the subject content will be reviewed and the key skills will be practiced. A variety of structured revision activities will be used to allow students to identify areas for development and subsequently improve their skills and knowledge.</li> </ul>					

**Qualification: AQA GCSE Separate Sciences - Physics**

 Link to specification: [www.aqa.org.uk/subjects/science/gcse/physics-8463](http://www.aqa.org.uk/subjects/science/gcse/physics-8463)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 topics	<ul style="list-style-type: none"> <li>Investigative science skills</li> <li>Preparation for GCSE course</li> </ul>	<ul style="list-style-type: none"> <li>Energy.</li> </ul>		<ul style="list-style-type: none"> <li>The particle model of matter.</li> </ul>		<ul style="list-style-type: none"> <li>Atomic structure.</li> </ul>
Assessment	<ul style="list-style-type: none"> <li>IA - Quick tests/skills checks to check progress towards key concepts</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>
Year 9 Rationale	<ul style="list-style-type: none"> <li>GCSE Physics begins in Year 9 so as to allow three years to complete the course. This permits more time to both explore the learning and to regularly revisit and consolidate the subject knowledge.</li> <li>The focus at the beginning of Year 9 will be on building a strong skills base in the students. Examples include graph-drawing, data interpretation and subject specific vocabulary regarding investigative science. Students are repeatedly required to demonstrate the competent use of such skills throughout the course.</li> <li>The students will spend the remainder of Year 9 learning three units of the GCSE Physics content.</li> </ul>					
Year 10 topics	<ul style="list-style-type: none"> <li>Electricity.</li> </ul>		<ul style="list-style-type: none"> <li>Forces.</li> </ul>		<ul style="list-style-type: none"> <li>Waves.</li> </ul>	
Assessment	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>	
Year 10 Rationale	<ul style="list-style-type: none"> <li>Students will spend Year 10 learning three more units of the subject content for GCSE Physics.</li> <li>The focus of assessment will be on the content for the paper 1 examinations. This will be regularly reviewed throughout the year. Students will be encouraged to both make and use a variety of revision resources. They will practice GCSE style questions during lessons, for homework and as part of formal interim and key assessments. This will provide them with the opportunity to develop firm revision and examination skills throughout their chosen GCSE.</li> </ul>					
Year 11 topics	<ul style="list-style-type: none"> <li>Magnetism and electromagnetism.</li> </ul>	<ul style="list-style-type: none"> <li>Space</li> </ul>		<ul style="list-style-type: none"> <li>Exam preparation, consolidation and revision</li> </ul>		
Assessment	<ul style="list-style-type: none"> <li>1xIA</li> </ul>	<ul style="list-style-type: none"> <li>1xIA</li> <li>At least 1xKA</li> </ul>		<ul style="list-style-type: none"> <li>Mock Exams as KA</li> </ul>		
Year 11 Rationale	<ul style="list-style-type: none"> <li>Students will finish learning the subject content for the paper 2 examinations.</li> <li>The focus will then be on preparing the students for their GCSE examinations. All of the subject content will be reviewed and the key skills will be practiced. A variety of structured revision activities will be used to allow students to identify areas for development and subsequently improve their skills and knowledge.</li> </ul>					