

KS4 Year 10 Physics

We follow the AQA curriculum for both combined and triple science. The website with all of the information for each course can be found below. For the specifications please see the link in the table.

Combined: <https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Triple: <https://www.aqa.org.uk/subjects/science/gcse/physics-8463>

Autumn Term		Spring Term		Summer Term	
Key knowledge: P1: Energy (Stores, Calculations, and Resources) P2: Electricity (Circuits and Calculations) P3: Particle Model (States of Matter, Changes of State, and Internal Energy) Note: Some topics are Physics GCSE only. Please refer to the specifications from AQA: Physics: https://www.aqa.org.uk/subjects/science/gcse/physics-8463 Combined Science: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF		Key knowledge: P4: Atomic Structure and Nuclear Radiation (Atoms, Isotopes, Development of Atomic Theory, and Nuclear Radiation) P5: Forces and Mechanics (Vectors and Scalars, Contact and Non-Contact, Calculations, and Stopping Distances) Note: Some topics are Physics GCSE only. Please refer to the specifications from AQA: Physics: https://www.aqa.org.uk/subjects/science/gcse/physics-8463 Combined Science: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF		Key Knowledge: P6: Waves (Wave Behaviours, Calculations, and EM Spectrum) P7: Magnetism (Permanent and Induced, and Magnetic Fields) P8 (Physics GCSE only): Space Physics (Solar System, Life of a Star, Orbital Motion) Note: Some topics are Physics GCSE only. Please refer to the specifications from AQA: Physics: https://www.aqa.org.uk/subjects/science/gcse/physics-8463 Combined Science: https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF	
Pupils will be able to: Apply the VESNU technique to a range of energy and electricity equations. Write considered explanations of physical phenomena involving energy, electricity and the particle model.	Key Vocabulary: Please refer to Knowledge Booklets and Revision Guides.	Pupils will be able to: Apply the VESNU technique to a range of forces equations. Write considered explanations of physical phenomena involving atomic theory, nuclear radiation and forces.	Key Vocabulary: Please refer to Knowledge Booklets and Revision Guides.	Pupils will be able to: Apply the VESNU technique to a range of waves and magnetism equations. Write considered explanations of physical phenomena involving waves, magnetism and space physics.	Key Vocabulary: Please refer to Knowledge Booklets and Revision Guides.
Assessment: Regular in-lesson assessments and scheduled AAFPOLs.		Assessment: Regular in-lesson assessments and scheduled AAFPOLs.		Assessment: Regular in-lesson assessments and scheduled AAFPOLs.	
Enrichment Opportunities:		Enrichment Opportunities:		Enrichment Opportunities:	
Assessment Objectives (AOs): AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.					

Year 11 Physics

We follow the AQA curriculum for both combined and triple science. The website with all of the information for each course can be found below. For the specifications please see the link in the table.

Combined: <https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Triple: <https://www.aqa.org.uk/subjects/science/gcse/physics-8463>

Autumn Term		Spring Term		Summer Term
<p>Key knowledge:</p> <p>P1: Energy (Review Y10, Efficiency of Insulation, and National Grid)</p> <p>P2: Electricity (Review Y10, Domestic Electricity, and Static and Fields)</p> <p>P3: Particle Model (Review Y10, Specific Heat Capacity and Latent Heat, and Pressure in gases)</p> <p>P4: Atomic Structure and Nuclear Radiation (Review Y10, Decay Equations, Half Life, Uses of Radiation, and Fission and Fusion)</p> <p>Note: Some topics are Physics GCSE only.</p> <p>Please refer to the specifications from AQA:</p> <p>Physics:</p> <p>https://www.aqa.org.uk/subjects/science/gcse/physics-8463</p> <p>Combined Science:</p> <p>https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</p>		<p>Key knowledge:</p> <p>P5: Forces and Mechanics (Review Y10, Moments, Pressure in Fluids, Newton’s Laws, and Momentum)</p> <p>P6: Waves (Review Y10, Reflection and Refraction, Uses of Waves, Lenses, and Black Body Radiation)</p> <p>P7: Magnetism (Review Y10, Motor Effect, Transformers)</p> <p>P8 (Physics GCSE only): Space Physics (Review Y10, Red Shift)</p> <p>Note: Some topics are Physics GCSE only.</p> <p>Please refer to the specifications from AQA:</p> <p>Physics:</p> <p>https://www.aqa.org.uk/subjects/science/gcse/physics-8463</p> <p>Combined Science:</p> <p>https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF</p>		<p>Revision and Exam Practice</p>
<p>Pupils will be able to:</p> <p>Apply the VESNU technique to a range of energy and electricity equations.</p> <p>Write considered explanations of physical phenomena involving energy, electricity, the particle model, atomic theory and nuclear radiation.</p>	<p>Key Vocabulary:</p> <p>Please refer to Knowledge Booklets and Revision Guides.</p>	<p>Pupils will be able to:</p> <p>Apply the VESNU technique to a range of forces, waves and magnetism equations.</p> <p>Write considered explanations of physical phenomena involving forces, waves, magnetism and space physics.</p>	<p>Key Vocabulary:</p> <p>Please refer to Knowledge Booklets and Revision Guides.</p>	
<p>Assessment:</p> <p>Regular in-lesson assessments and scheduled AAFPOLs.</p>		<p>Assessment:</p> <p>Regular in-lesson assessments and scheduled AAFPOLs.</p>		
<p>Enrichment Opportunities:</p>		<p>Enrichment Opportunities:</p>		
<p>Assessment Objectives (AOs):</p> <p>AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.</p> <p>AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.</p> <p>AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.</p>				