

CURRICULUM OVERVIEW

Please contact your child's subject teacher or Head of Department for answers to subject related questions

SUBJECT	TRIPLE PHYSICS	YEAR GROUP	KS4
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Y10	Lesson Content	Subject Assessment Methods	Opportunities for Home Learning
HALF TERM 1	Energy and Electricity: <ul style="list-style-type: none"> • Energy transfers & efficiency; • Kinetic theory and evaporation; • Heat transfers by conduction, convection and radiation; • Insulation and heat capacity; • Electrical energy and the cost of electricity; • Generating electricity and the National Grid Practice ISA – practical coursework	<ul style="list-style-type: none"> • Progress tracked using topic tests produced from past paper exam questions. This provides very accurate information on student progress in the form of a GCSE type grade. This information is used to inform intervention planning for individual students. • ISAs (coursework aspect) give us an approximate grade for current performance. The highest ISA mark gained over the two years will be used towards 25% of the final grade	<ul style="list-style-type: none"> • Use of revision guide/exercise books/internet to consolidate learning is expected after every lesson. • Small research projects may be set. • Revision in preparation for exams plays a large role in homework. • Homework varies depending on topic. May be completion/extension of class work, exam style questions, extended writing, independent research, preparation for next lesson.
HALF TERM 2			
HALF TERM 3			
HALF TERM 4	Waves: <ul style="list-style-type: none"> • Wave properties; • Reflection of light; • Sound waves; • Redshift and the Expanding Universe 	March Assessment	
HALF TERM 5			
HALF TERM 6		Unit P1 Examination (25% of final grade)	

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Y11	Lesson Content	Subject Assessment Methods	Opportunities for Home Learning
HALF TERM 1	<u>Term 1</u> <ul style="list-style-type: none"> Atomic Structure, Fission and Fusion, Radioactive decay, Background radiation Static electricity, Current electricity in Circuits, Mains electricity, AC/DC 		
HALF TERM 2	<ul style="list-style-type: none"> Forces in motion: velocity, acceleration, momentum, kinetic energy and work done Unit 2 ISA (coursework) Mock exam - Unit PHY2 		
HALF TERM 3	<ul style="list-style-type: none"> <u>PHY2 Exam in January</u> Centripetal Forces, Orbits and Satellites Moments, Centre of Mass & Stability 		



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HALF TERM 4	<ul style="list-style-type: none">• Optics: reflection, refraction, curved mirrors and lenses, image formation and ray diagrams• Sound waves and Ultrasound• Motors, Generators and Transformers• Life of a Star		
HALF TERM 5	<u>Term 3</u> <ul style="list-style-type: none">• Preparation for final PHY3 Exam using past papers		
HALF TERM 6			