

CURRICULUM OVERVIEW

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

SUBJECT	DOUBLE 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 	<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. • Mock exam carried out in line with other subjects. • ISAs (coursework aspect) give us an approximate grade for current performance. 	Opportunities for Home Learning <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			
	ISA – practical coursework	The highest ISA from the three science subjects will count as 25% of the final grade	
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 – Science A	

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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"> • 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. • The AQA website offers the specification, past papers, mark-schemes, exam reports at http://web.aqa.org.uk/qual/newgcse/science/new/physics_overview.php
HALF TERM 2	<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 	Mock exam	
HALF TERM 3	<u>Term 2</u>	ISA (25% of final grade)	
HALF TERM 4	<ul style="list-style-type: none"> • Forces in motion: velocity, acceleration, momentum, kinetic energy and work done • Unit 2 ISA (coursework) 		
HALF TERM 5	Preparation for final exam	Unit PHY2 (25% of final grade – Additional Science)	
HALF TERM 6			