



Years 10 & 11 Curriculum

Level 2: Extended Mathematics



Year 10	Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Set 1	- Ratio and co-ordinate geometry - Product rule for counting - Laws of indices - Sequences - Circle theorems - Geometric proof, including circle theorems	Expanding and Factorising	- Equation of a straight line - Parallel and perpendicular lines - Understanding gradient - Linear and quadratic inequalities	- Formulae and expressions - Functions - Factor Theorem - Algebraic proof	Drawing and sketching functions	- Completing the square - Algebraic fractions

Year 11	Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Set 1	- Surds - Linear and quadratic equations - Simultaneous equations - Circle co-ordinate geometry	- Trigonometry in non-right-angled triangles - Exact trigonometric values 3D Pythagoras and trigonometry - Trigonometric graphs - Trigonometric identities	Calculus	Revision	Revision	



Years 10 & 11 Assessment

Level 2: Extended Mathematics



Both Year 10 & 11 pupils will sit one mock examination.

	Year 10		Year 11		
	Mock Exam		Mock Exam		Revision Resources
	Spring Term		Autumn Term		
Style of Assessment	Paper 1: Non-Calculator	Paper 2: Calculator	Paper 1: Non-Calculator	Paper 2: Calculator	<i>Kennet Resources</i> • Core Questions • Knowledge Organisers • Learning Habits
Topics Assessed	A selection of topics covered since the beginning of Year 10. These will be taken from the following list but may not include all topics from the list: • The product rule for counting, co-ordinate geometry (straight lines), index laws sequences, circle theorems, expanding and factorising, linear and quadratic inequalities, functions, factor theorem • Any topic may be assessed on either paper. The topic may be assessed more than once in different scenarios e.g. knowledge recall in one question and as a proof in a different question		A selection of topics covered since the beginning of Year 10. These may be taken from the previous list and from the following: • Drawing and sketching functions (including straight lines, quadratics, cubics, exponentials & reciprocal), completing the square, algebraic fractions, surds, solving linear and quadratic equations using a variety of methods, simultaneous equations (up to three unknowns), co-ordinate geometry (including circles), Pythagoras and trigonometry (including in non-right-angled triangles), 3D trigonometry and 3D Pythagoras • Any topic may be assessed on either paper. The topic may be assessed more than once in different scenarios, e.g. knowledge recall in one question and as a proof in a different question		<i>External Resources</i> • www.mathsapp.pixl.org.uk • www.mymaths.co.uk • www.bbc.com/bitesize