Years 10 & 11 Curriculum
GCSE: 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 to 2	• Rounding and checking • Indices and roots • Factors, multiples and primes • Standard form and surds • Sequences • Algebraic manipulation • Averages and spread	• Representing and interpreting data • Fractions and percentages • Ratio and proportion • Polygons and parallel lines	• Pythagoras' Theorem • Trigonometry • Real life graphs • Coordinate geometry	• Other graphs • Perimeter, area and circles • 3D shapes • Accuracy and bounds	• Transformations	• Constructions, loci and bearings • Solving quadratic equations • Solving simultaneous equations • Inequalities • Probability • Multiplicative reasoning • Similarity and congruence
Sets 3 to 5	• Rounding and checking • Indices and roots • Factors, multiples and primes • Standard form and surds • Sequences • Algebraic manipulation • Averages and spread	• Representing and interpreting data • Fractions and percentages • Ratio and proportion • Polygons and parallel lines	• Pythagoras' Theorem • Trigonometry • Real life graphs • Coordinate geometry	• Other graphs • Perimeter, area and circles • 3D shapes • Accuracy and bounds	• Pupils will move to either Higher (the same content as Set 1 to 2) or Foundation (the same content as Set 6) tier content dependent on the outcomes from their Mock Exams and their work in class	
Set 6	• Integers and place value • Decimals • Indices, powers and roots • Factors, multiples and primes • Algebraic manipulation • Equations and inequalities	• Sequences • Tables, charts and graphs • Pie charts and scatter graphs • Fractions, decimals and percentages	• Percentages • Polygons, parallel lines and angle facts	• Sampling and averages • Perimeter, area and volume • Real life graphs • Straight line graphs	• Transformations	• Ratio and proportion • Pythagoras' Theorem • Trigonometry • Probability • Multiplicative reasoning

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 to 3	• Further trigonometry • Trigonometric graphs • Further algebra	• Collecting data • Cumulative frequency • Histograms • Circle theorems	• Circle geometry • Further algebra 2	• Rates of change • Area under a curve • Vectors	• Past paper revision	
Sets 4 to 6	• Plans and elevations • Construction, loci and bearings • Quadratics • Circles and cylinders	• Fractions • Indices • Standard form • Congruence and similarity	• Vectors	• Rearranging formulae • Simultaneous equations	• Past paper revision	

Exam Board: Pearson | Edexcel

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Year 10 Assessment
Mathematics

All pupils will sit several knowledge tests, a progress test and a mock examination in Year 10.

<table>
<tr><th rowspan="2">Year 10</th><th>Knowledge Tests</th><th>Formal Assessment</th><th colspan="3">Mock Exam</th><th>Revision Resources</th></tr>
<tr><th>Autumn/Spring Terms</th><th>Autumn Term</th><th colspan="3">Summer Term</th><td rowspan="3">*Kennet Resources*
• Core Questions
• Knowledge Organisers
• Learning Habits

External Resources
• www.mymaths.co.uk
• www.bbc.com/bitesize</td></tr>
<tr><td>Style of Assessment</td><td>Each knowledge test will consist of 20 multiple-choice questions</td><td>Paper 1: Non-Calculator

Paper 2: Calculator</td><td colspan="3">Paper 1: Non-Calculator

Paper 2: Calculator</td></tr>
<tr><td>Topics Assessed</td><td>• Core knowledge taught until that point in the academic year</td><td>All topics up until Year 10 November</td><td colspan="3">The exam will assess any content taught up to this point in the year or any previously taught content. The units covered are listed below. A revision list and revision materials will be provided prior to the assessment</td></tr>
<tr><td></td><td></td><td></td><td>Higher (Set 1 – 2)
• Rounding and checking
• Indices and roots
• Factors, multiples and primes
• Standard form and surds
• Sequences
• Algebraic manipulation
Averages and spread
• Representing and interpreting data
• Fractions and percentages
• Ratio and proportion
Polygons & parallel lines
• Pythagoras' Theorem
• Trigonometry
• Real life & other graphs
• Coordinate geometry
• Perimeter, area and circles</td><td>Core (Set 3 – 5)
• Rounding and checking
• Indices and roots
• Factors, multiples and primes
• Standard form and surds
• Sequences
• Algebraic manipulation
Averages and spread
• Representing and interpreting data
• Fractions and percentages
• Ratio and proportion
Polygons & parallel lines
• Pythagoras' Theorem
• Trigonometry
• Real life graphs
• Coordinate geometry
• Other graphs
• Perimeter, area and circles</td><td>Foundation (Set 6)
• Integers and place value
• Decimals
• Indices, powers and roots
• Factors, multiples and primes
• Algebraic manipulation
Equations & inequalities
• Sequences
• Tables, charts and graphs
• Pie charts and scatter graphs
Fractions, decimals & percentages
• Percentages
Polygons, parallel lines & angle facts
• Sampling and averages
• Perimeter, area and volume</td></tr>
</table>

Years 10 & 11 Assessments *(continued)*
Mathematics

In Year 11, pupils will sit an assessment and a mock examination.

Year 11	Assessment	Mock Exam	Revision Resources
	Autumn Term	**Autumn Term**	*Kennet Resources* • Core Questions • Knowledge Organisers • Learning Habits *External Resources* • www.mymaths.co.uk • www.bbc.com/bitesize
Style of Assessment	**Paper 1:** Non-Calculator; **Paper 2:** Calculator; **Paper 3:** Calculator	**Paper 1:** Non-Calculator; **Paper 2:** Calculator; **Paper 3:** Calculator	
Topics Assessed	This assessment will be made up of three GCSE paper, covering all content covered in Year 10	This mock exam will be made up of three full GCSE papers. These cover all GCSE content	
	Higher (Sets 1 – 6): • Indices • Surds • Standard Form • Estimating & Accuracy • 2D Shapes & Angles • Circle Geometry • Expanding & Factorising • Sequences • Expressions • Pythagoras' Theorem • Fractions & Decimals • Transformations • Percentages • Ratio & Proportion • Scatter Graphs • Constructions & Loci • Formulae • Simultaneous Equations • Inequality • Graphs • Trigonometry • Vectors • Measures • Quadratic Equations	*Foundation (Sets 7 – 12):* • Number skills • Averages & Spread • Fractions, Decimals & Percentages • 2D Shapes • Equations, Expressions & Inequalities • Directed Numbers • Collecting & Recording Data • Transformations • Calculating with Fractions • Angles • Calculating with Decimals • Perimeter & Area • Probability • Graphs & Coordinates • Real life Graphs • Ratio & Proportion • Powers and roots • Circumference & area of circles • Pythagoras's Theorem	