

## CURRICULUM SUMMARY - MATHEMATICS

### YEAR 7

TERM 1	TERM 2	TERM 3
<p><b>CONTENT</b></p> <p>Chapter 1 and 7 – Number skills                      Chapter 4 – Fractions                      Chapter 7 – Decimals                      Chapter 3 – Equations, Functions and Formulae</p>	<p><b>CONTENT</b></p> <p>Chapter 5 – Angles and 2D shapes                      Chapter 8 – Analysing and Displaying Data                      Chapter 10 - Equations</p>	<p><b>CONTENT</b></p> <p>Chapter 15 – Ratio and Proportion                      Chapter 2 and 14 – Perimeter, Area and Volume                      Chapter 1 and 3 – Factors and Powers</p>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Standardised Tests which can monitor progress</li> <li>• Homework Assessments</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Standardised Tests which can monitor progress</li> <li>• Homework Assessments</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Standardised Tests which can monitor progress</li> <li>• Homework Assessments</li> <li>• End of year exam covering all topics from this year</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths watch</p>

## YEAR 8

TERM 1	TERM 2	TERM 3
<p><b>CONTENT</b></p> <p>Chapter 1 – Whole Numbers and Decimals Chapter 2 – Measures and Perimeters Chapter 3 – Expressions and Formulae Chapter 4 – Fractions, Percentages and Decimals</p>	<p><b>CONTENT</b></p> <p>Chapter 6 – Graphs Chapter 7 – Decimal Calculations Chapter 16 - Probability</p>	<p><b>CONTENT</b></p> <p>Chapter 15 – Ratio and Proportion Chapter 10 – Equations Chapter 11 – Powers and Roots Chapter 5 – Angles and 2D shapes</p>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>Standardised Tests which can monitor progress</li> <li>Homework Assessments</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>Standardised Tests which can monitor progress</li> <li>Homework Assessments</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>Standardised Tests which can monitor progress</li> <li>Homework Assessments</li> <li>End of year exam covering all topics from this year</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>

## YEAR 9 - Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
<b>CONTENT</b>  Ch 1. Number: Calculations Ch 5 Number: Fractions, decimals and percentages Ch 4 and 16 Statistics: Handling Data Ch 2 Algebra: Expressions	<b>CONTENT</b>  Ch 2 Algebra: Expressions Ch 10 Algebra: Solving linear equations Ch 7 Geometry: Working with 2D Chapter 19 – Geometry: Trigonometry and Pythagora	<b>CONTENT</b>  Ch 3 Geometry: Angles and Polygons Ch 8 Statistics: Probability
<b>ASSESSMENTS</b> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> </ul>	<b>ASSESSMENTS</b> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> </ul>	<b>ASSESSMENTS</b> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> <li>• End of Year Exam</li> </ul>
<b>HOW PARENTS CAN SUPPORT LEARNING</b>  Ensuring your child completes homework and brings the correct Maths equipment to every lesson  Ensuring your child is able to access and use MyMaths online	<b>HOW PARENTS CAN SUPPORT LEARNING</b>  Ensuring your child completes homework and brings the correct Maths equipment to every lesson  Ensuring your child is able to access and use MyMaths online	<b>HOW PARENTS CAN SUPPORT LEARNING</b>  Ensuring your child completes homework and brings the correct Maths equipment to every lesson  Ensuring your child is able to access and use MyMaths online

## YEAR 10 - Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
<p>Ch 14 Algebra: Graphs 1 Ch 10 Algebra: Equations Ch 13/17 Number: Factors, powers, roots, calculations 2</p>	<p>Ch 13/17 Number: Factors, powers, roots, calculations 2 Ch 6: formulae and Functions</p>	<p>Ch 11 Geometry: Circles and Constructions Ch 10: Inequalities Ch 15: Geometry: Working in 3D</p>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> <li>• Mid-Year Exams</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• End of Unit Assessments</li> <li>• Homework Assessments</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online and Maths Watch</p>

**YEAR 11 – Exam Board EDEXCEL**

TERM 1	TERM 2	TERM 3
<p>Ch 18: Algebra: Graphs 2 Ch 19 Geometry: vectors</p>	<p>Ch 20 Data: Probability of combined events Ch 22 Number: Units and Proportionality ch 9 Number: Measures of Accuracy</p>	<p><b>Revision and preparation for GCSE exam</b></p>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• 1 tests measuring progress during this first term</li> <li>• Mock Exams</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• 2 tests measuring progress during this second term and regular use of practice papers</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• In class exam practice using past papers</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>

## YEAR 12 – Mathematics – Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics</p> <p><b>Content overview</b></p> <ul style="list-style-type: none"> <li>• Indices and Surds</li> <li>• Quadratics</li> <li>• Simultaneous Equations &amp; Inequalities</li> <li>• Cubic, Quartic and Reciprocal Graphs</li> <li>• Straight Line Graphs</li> <li>• Equation of a Circle</li> <li>• Sampling</li> <li>• Measures of Spread</li> <li>• Representing Data</li> <li>• Modelling in Mechanics</li> <li>• Constant Acceleration Equations</li> <li>• Probability</li> </ul>	<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics</p> <p><b>Content overview</b></p> <ul style="list-style-type: none"> <li>• Factor Theorem and Proof</li> <li>• Trigonometry</li> <li>• Differentiation</li> <li>• Integration</li> <li>• Forces and Motion</li> <li>• Resolving Forces</li> <li>• Vectors</li> </ul>	<p>Papers 1 and 2: Pure Mathematics 1 <b>Paper 3: Statistics and Mechanics</b></p> <p><b>Content overview</b></p> <ul style="list-style-type: none"> <li>• Integration continued</li> <li>• Logarithms and Exponentials</li> <li>• Variable Acceleration</li> <li>• Correlation</li> <li>• Regression</li> </ul>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Progress test by half term and progress test at end of term</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Mock exam at start of term, progress test at end of term</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>• Ongoing exam preparation and practise</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>

YEAR 12 – FURTHER MATHS EDEXCEL

TERM 1	TERM 2	TERM 3
<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics</p> <p><u>Content overview</u></p> <ul style="list-style-type: none"> <li>● Indices and Surds</li> <li>● Quadratics</li> <li>● Simultaneous Equations &amp; Inequalities</li> <li>● Cubic, Quartic and Reciprocal Graphs</li> <li>● Straight Line Graphs</li> <li>● Equation of a Circle</li> <li>● Sampling</li> <li>● Measures of Spread</li> <li>● Representing Data</li> <li>● Modelling in Mechanics</li> <li>● Constant Acceleration Equations</li> <li>● Probability</li> <li>● Factor Theorem and Proof</li> <li>● Trigonometry</li> <li>● Differentiation</li> <li>● Integration</li> <li>● Forces and Motion</li> <li>● Resolving Forces</li> <li>● Vectors</li> <li>● Binomial Theorem</li> </ul>	<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics</p> <p><u>Content Overview</u></p> <ul style="list-style-type: none"> <li>● Integration continued</li> <li>● Logarithms and Exponentials</li> <li>● Variable Acceleration</li> <li>● Correlation</li> <li>● Regression</li> <li>● Algebraic Fractions</li> <li>● Sequences and Series</li> <li>● Functions</li> <li>● Binomial Expansion</li> <li>● Radians</li> <li>● Moments</li> <li>● Random Variables</li> <li>● Hypothesis Testing</li> <li>● Further Trigonometry</li> <li>● Parametric Equations</li> <li>● Normal Distribution</li> <li>● Projectiles</li> <li>● Differentiation</li> <li>● Numerical Methods</li> </ul>	<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics</p> <p><u>Content Overview</u></p> <ul style="list-style-type: none"> <li>● Vectors</li> <li>● Integration</li> <li>● Rigid Bodies</li> <li>● Further Kinematics</li> </ul>
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● Progress tests</li> </ul>	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● Progress tests</li> </ul>	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● End of Year Mock</li> </ul>
<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>

## YEAR 13 MATHEMATICS EDEXCEL

TERM 1	TERM 2	TERM 3
<p><b><u>Term 1</u></b> Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p><b><u>Content Overview</u></b></p> <ul style="list-style-type: none"> <li>● Regression</li> <li>● Conditional Probability</li> <li>● Moments</li> <li>● Partial Fractions</li> <li>● Functions</li> <li>● Sequences and Series</li> <li>● Binomial Expansion</li> <li>● Radians</li> <li>● Trigonometry</li> <li>● Statics and Dynamics</li> </ul>	<p><b><u>Term 2</u></b> Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p><b><u>Content Overview</u></b></p> <ul style="list-style-type: none"> <li>● Differentiation</li> <li>● Trigonometry continued</li> <li>● Projectiles</li> <li>● Parametric Equations</li> <li>● Numerical Methods</li> <li>● Further Kinematics</li> <li>● Rigid Bodies</li> <li>● Radians</li> <li>● Trigonometry</li> <li>● Vectors</li> </ul>	<p><b><u>Term 3</u></b> Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p><b><u>Content Overview</u></b></p> <ul style="list-style-type: none"> <li>● Integration</li> </ul>
<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>● Progress test by half term and progress test at end of term</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>● Mock exam at start of term, progress test at end of term</li> </ul>	<p><b>ASSESSMENTS</b></p> <ul style="list-style-type: none"> <li>● Ongoing exam preparation and practice</li> </ul>
<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p><b>HOW PARENTS CAN SUPPORT LEARNING</b></p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>



YEAR 13 – FURTHER MATHS EDEXCEL

TERM 1	TERM 2	TERM 3
<p>Papers 1 and 2: Pure Mathematics 2                      Paper 3: Statistics and Mechanics                      Paper 4: Core Pure Mathematics 1</p> <p><b><u>Content overview</u></b></p> <ul style="list-style-type: none"> <li>● Differentiation</li> <li>● Vectors</li> <li>● Integration</li> <li>● Correlation and Regression</li> <li>● Conditional Probability</li> <li>● Normal Distribution</li> <li>● Projectiles</li> <li>● Moments</li> <li>● Statics and Dynamics</li> <li>● Further Kinematics</li> <li>● Complex Numbers &amp; Argand Diagrams</li> <li>● Series</li> <li>● Roots of Polynomials</li> <li>● Volume of Revolution</li> <li>● Transformations</li> <li>● Matrices</li> <li>● Proof</li> <li>● 3D Vectors</li> </ul>	<p>Paper 5: Core Pure Mathematics 2                      Paper 6: Further Mechanics 1                      Paper 7: Further Pure Mathematics 1</p> <p><b><u>Content Overview</u></b></p> <ul style="list-style-type: none"> <li>● Further Complex Numbers</li> <li>● Series</li> <li>● Methods in Calculus</li> <li>● Further Volumes of Revolution</li> <li>● Polar Co-ordinates</li> <li>● Algebraic Fractions</li> <li>● Momentum and Impulse</li> <li>● Work, Energy &amp; Power</li> <li>● Hooke's Law</li> <li>● Radians</li> <li>● Vectors</li> <li>● Conics</li> <li>● Inequalities</li> <li>● Advanced Trigonometric Approaches</li> <li>● Collisions</li> <li>● Elastic Collisions</li> <li>● Hyperbolic Functions</li> <li>● Differential Equations</li> <li>● Numerical Methods</li> <li>● Taylor Series</li> <li>● Further Methods in Calculus</li> </ul>	<p>Paper 7: Further Pure Mathematics 1</p> <p><b><u>Content Overview</u></b></p> <ul style="list-style-type: none"> <li>● Modelling with Differential Equations</li> <li>● Reducible Differential Equations</li> </ul>
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● Progress tests</li> </ul>	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● Progress tests</li> </ul>	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <li>● End of Year Mock</li> </ul>
<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <p>Ensuring your child completes homework and brings the correct Maths equipment to every lesson</p> <p>Ensuring your child is able to access and use MyMaths online</p>

