

CURRICULUM PLAN- MATHEMATICS

**KS3:
YEAR 7**

TERM 1	TERM 2	TERM 3
CONTENT	CONTENT	CONTENT
Number Skills Decimals and Rounding Angles Construction Averages Collecting and representing data	Fractions Algebra Sequences Ratio	Percentages Using a calculator 2D shapes 3D shapes Compound Measure
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
<ul style="list-style-type: none"> • Baseline assessment • Standardized Tests which can monitor progress • Homework assessments (Sparx) 	<ul style="list-style-type: none"> • Standardized Tests which can monitor progress • Homework assessments (Sparx) 	<ul style="list-style-type: none"> • Standardized Tests which can monitor progress • Homework assessments (Sparx) • End of Year exam
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
<ul style="list-style-type: none"> • Ensuring your child completes Sparx homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided. 	<ul style="list-style-type: none"> • Ensuring your child completes Sparx homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided. 	<ul style="list-style-type: none"> • Ensuring your child completes Sparx homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided.

**KS3:
YEAR 8**

TERM 1	TERM 2	TERM 3
<p>CONTENT</p> <p>Algebra Sequences Co-ordinates and linear graphs Prime factorization and LCM/HCF Fractions Error intervals Indices Standard Form</p>	<p>CONTENT</p> <p>Percentages Ratio Averages Angles Collecting data</p>	<p>CONTENT</p> <p>Representing data Pythagoras Probability 2D shapes 3D shapes</p>
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) End of year exam
<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided.

KS4:**YEAR 9 - Exam Board EDEXCEL**

TERM 1	TERM 2	TERM 3
CONTENT HCF and LCM Indices Surds Algebra Representing Data Averages	CONTENT Fractions Ratio Proportion Percentages Angles Pythagoras Trigonometry Equations of linear graphs	CONTENT Compound Measure Area of 2D shapes Surface area and volume of 3D shapes Transformations and construction
ASSESSMENTS <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) 	ASSESSMENTS <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) 	ASSESSMENTS <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) End of Year Exam
HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided.

YEAR 10 - Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
<p>Inequalities Solving quadratic equations Simultaneous equations Probability Growth and decay Compound measure Ratio and proportion 2d and 3D shapes</p>	<p>Similarity Pythagoras Right angle and non-right angle Trigonometry Averages Capture-recapture Representing data Plotting graphs Solving simultaneous graphically Inequality regions</p>	<p>Circle theorem Bearings Bounds Algebraic fractions Recurring decimals to fractions Transformations</p>
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx) Mock exam 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> Standardized Tests which can monitor progress Homework assessments (Sparx)
<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided. 	<p>HOW PARENTS CAN SUPPORT LEARNING</p> <ul style="list-style-type: none"> Ensuring your child completes Sparx homework Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) Encourage students to be revising for standardize testing using Sparx and resources provided.

YEAR 11 – Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
Proportions and Graphs Vectors Iteration Revision for mocks	Functions Transformations of graphs Revision for GCSE	Revision and preparation for GCSE exam
ASSESSMENTS <ul style="list-style-type: none"> • 1 tests measuring progress during this first term • Mock Exams 	ASSESSMENTS <ul style="list-style-type: none"> • 2 tests measuring progress during this second term and regular use of practice papers 	ASSESSMENTS <ul style="list-style-type: none"> • In class exam practice using past papers
HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> • Ensuring your child completes Sparx/exam booklet homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided. 	HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> • Ensuring your child completes Sparx/exam booklet homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided. 	HOW PARENTS CAN SUPPORT LEARNING <ul style="list-style-type: none"> • Ensuring your child completes Sparx/exam booklet homework • Ensure your child bring the correct Maths equipment to every lesson (pen, pencil, ruler, rubber, sharpener, protractor, compass, calculator) • Encourage students to be revising for standardize testing using Sparx and resources provided.

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><u>Content overview</u></p> <ul style="list-style-type: none"> ● Indices and Surds ● Quadratics & Discriminant ● Simultaneous Equations & Inequalities ● Cubic, Quartic and Reciprocal Graphs ● Straight Line Graphs ● Equation of a Circle ● Algebraic Division & Factor Theorem ● Sampling ● Measures of Spread ● Representing Data ● Modelling in Mechanics 	<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"> ● Trigonometry ● Differentiation ● Integration ● Constant Acceleration Equations ● Probability ● Forces and Motion ● Resolving Forces ● Vectors 	<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"> ● Integration continued ● Logarithms and Exponentials ● Variable Acceleration ● Correlation ● Regression ● Binomial Distribution & Hypothesis Testing
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Progress test by half term and progress test at end of term <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>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Mock exam at start of term, progress test at end of term <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>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Ongoing exam preparation and practise <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 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"> ● Indices and Surds ● Quadratics ● Simultaneous Equations & Inequalities ● Cubic, Quartic and Reciprocal Graphs ● Straight Line Graphs ● Equation of a Circle ● Sampling ● Measures of Spread ● Representing Data ● Modelling in Mechanics ● Constant Acceleration Equations ● Probability ● Factor Theorem and Proof ● Trigonometry ● Differentiation ● Integration ● Forces and Motion ● Resolving Forces ● Vectors ● Binomial Theorem 	<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"> ● Integration continued ● Logarithms and Exponentials ● Variable Acceleration ● Correlation ● Regression ● Algebraic Fractions ● Sequences and Series ● Functions ● Binomial Expansion ● Radians ● Moments ● Random Variables ● Hypothesis Testing ● Further Trigonometry ● Parametric Equations ● Normal Distribution ● Projectiles ● Differentiation ● Numerical Methods 	<p>Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics Core Pure 1: Further Maths Pure Paper 1</p> <p><u>Content Overview</u></p> <ul style="list-style-type: none"> ● Vectors ● Integration ● Rigid Bodies ● Further Kinematics ● Complex Numbers ● Matrices ● Further Summations ● Volume of Revolution
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Progress tests 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Progress tests 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ End of Year Mock
<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>Term 1 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p>Content Overview</p> <ul style="list-style-type: none"> ● Partial Fractions ● Functions ● Binomial Expansion ● Radians ● Trigonometry ● Differentiation ● Trigonometry continued ● Statics and Dynamics 	<p>Term 2 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p>Content Overview</p> <ul style="list-style-type: none"> ● Projectiles ● Parametric Equations ● Numerical Methods ● Further Kinematics ● Rigid Bodies ● Vectors ● Moments ● Normal Distribution ● Integration 	<p>Term 3 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics</p> <p>Content Overview</p> <ul style="list-style-type: none"> ● Sequences and Series ● Integration continued ● Proof ● Regression
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Progress test by half term and progress test at end of term 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Mock exam at start of term, progress test at end of term 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> □ Ongoing exam preparation and practice
<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 – 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 <u>Content overview</u></p> <ul style="list-style-type: none"> ● Complex Numbers & Argand Diagrams ● Roots of Polynomials ● Matrix Transformations ● Proof by Induction ● Series (Maclaurin, Taylor and Limits) ● 3D Vectors ● Further Complex Numbers ● Differential Equations ● Hyperbolic Functions ● Methods of Calculus ● Reducible Differential Equations 	<p>Paper 5: Core Pure Mathematics 2 Paper 6: Further Mechanics 1 Paper 7: Further Pure Mathematics 1 <u>Content Overview</u></p> <ul style="list-style-type: none"> ● Momentum and Impulse ● Work, Energy & Power ● Hooke's Law ● Conics ● Inequalities ● Advanced Trigonometric Approaches ● Collisions ● Elastic Collisions ● Numerical Methods of Differential Equations ● Taylor Series ● Further Methods in Calculus 	<p>Paper 7: Further Pure Mathematics 1</p> <p><u>Content Overview</u></p> <p>REVISION</p>
<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <input type="checkbox"/> Progress tests 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <input type="checkbox"/> Progress tests 	<p>ASSESSMENTS</p> <ul style="list-style-type: none"> <input type="checkbox"/> End of Year Mock

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