CURRICULUM PLAN-MATHEMATICS

KS3:

YEAR 7

TERM 1	TERM 2	TERM 3
CONTENT	CONTENT	CONTENT
Number Skills Decimals and Rounding Algebraic Expressions	Indices Solving Equations Ratios	Angle rules 2D Shapes – properties, area and perimeter 3d shapes End of year project
ASSESSMENTS Standardized Tests which can monitor progress Homework assessments Ninja booklets 	 ASSESSMENTS Standardized Tests which can monitor progress Homework assessments (Hegarty) Ninja Booklets 	ASSESSMENTS Standardized Tests which can monitor progress Homework assessments (Hegarty) Ninja Booklets End of year exam
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson
Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch

KS3:

YEAR 8

TERM 1	TERM 2	TERM 3
CONTENT	CONTENT	CONTENT
Sequences Graphs Basic Standard Form and rules of Indices Bounds	Solving complex linear Equations Averages – discrete and Continuous Ratio	**Calculator work** Percentages Probability End of year project e .g. best buys/ to include percentages on calc etc
ASSESSMENTS Standardized Tests which can monitor progress Homework assessments (Hegarty) Fortnightly times table tests (starting after half term 	 ASSESSMENTS Standardized Tests which can monitor progress Homework assessments (Hegarty) Fortnightly times table tests 	ASSESSMENTS Standardized Tests which can monitor progress Homework assessments (Hegarty) Fortnightly times table tests End of Year Exam End of year exam
HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson	HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson	HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson
Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch

KS4:

YEAR 9 - Exam Board EDEXCEL

TERM 1

CONTENT	CONTENT	CONTENT
Ch 1. Number: Calculations Ch 2Number: Fractions, decimals and percentages Ch 3 and 4 Statistics: Handling Data Ch 5 Algebra: Expressions	Ch 5 Algebra: Expressions Ch 10 Algebra: Solving linear equations Ch 6 Geometry: Working with 2D Chapter 7– Geometry: Trigonometry and Pythagoras Chapter 8 sequences	Ch 9 ratio and proportion Ch 10 Geometry:Angles and Polygons Ch 11 Statistics: Probablity
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
 End of Unit Assessments Homework Assessments 	 End of Unit Assessments Homework Assessments 	 End of Unit Assessments Homework Assessments End of Year Exam
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson
Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch

YEAR 10 - Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
Ch 12 Algebra: Graphs 1 Ch 13 Algebra: Equations Ch 14 Number: Factors, powers, roots, calcualtions 2	Ch 14 Number: Factors, powers, roots, calculations 2 Ch15 Non right Angle Triangles Ch 16:formulae and Functions	Ch 17: Inequalities Ch 18 Geometry: Circles and Constructions Ch 19: Geometry: Working in 3D
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
 End of Unit Assessments Homework Assessments 	 End of Unit Assessments Homework Assessments Mid-Year Exams 	 End of Unit Assessments Homework Assessments
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson
Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch	Ensuring your child is able to access and use Hegarty Maths and Maths Watch

YEAR 11 – Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
Ch 20: Algebra: Graphs 2 Ch 21 Number: Units and Proportionality	Ch 22 Data: Probability of combined events ch 23 Number:Measures of Accuracy Ch24 Geometry: vectors	Revision and preparation for GCSE exam
ASSESSMENTS 1 tests measuring progress during this first term Mock Exams 	ASSESSMENTS 2 tests measuring progress during this second term and regular use of practice papers 	ASSESSMENTS In class exam practice using past papers
HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson Ensuring your child is able to access and use Hegarty Maths and Maths Watch	HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson Ensuring your child is able to access and use Hegarty Maths and Maths Watch	HOW PARENTS CAN SUPPORT LEARNING Ensuring your child completes homework and brings the correct Maths equipment to every lesson Ensuring your child is able to access and use Hegarty Maths and Maths Watch

YEAR 12 – Mathematics – Exam Board EDEXCEL

TERM 1	TERM 2	TERM 3
Papers 1 and 2: Pure Mathematics 1	Papers 1 and 2: Pure Mathematics 1	Papers 1 and 2: Pure Mathematics 1
Paper 3: Statistics and Mechanics	Paper 3: Statistics and Mechanics	Paper 3: Statistics and Mechanics
Content overview	Content overview	Content overview
Indices and Surds	• Trigonometry	 Integration continued
Quadratics & Discriminant	Differentiation	 Logarithms and Exponentials
Simultaneous Equations & Inequalities	Integration	Variable Acceleration
• Cubic, Quartic and Reciprocal Graphs	Constant Acceleration Equations	Correlation
Straight Line Graphs	Probability	Regression
Equation of a Circle	•Forces and Motion	Binomial Distribution & Hypothesis Testing
• Algebraic Division & Factor Theorem	Resolving Forces	
Sampling	• Vectors	
 Measures of Spread 		
 Representing Data 		
 Modelling in Mechanics 		
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
Progress test by half term and progress test at end of term	Mock exam at start of term, progress test at end of term	Ongoing exam preparation and practise
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson	Ensuring your child completes homework and brings the correct Maths equipment to every lesson

	TERM 1	TERM 2	TERM 3
--	--------	--------	--------

Papers 1 and 2: Pure Mathematics 1	Papers 1 and 2: Pure Mathematics 1	Papers 1 and 2: Pure Mathematics 1
Paper 3: Statistics and Mechanics	Paper 3: Statistics and Mechanics	Paper 3: Statistics and Mechanics
Content overview	Content Overview	Core Pure 1: Further Maths Pure Paper 1
Indices and Surds	Integration continued	Content Overview
Quadratics	Logarithms and Exponentials	Vectors
• Simultaneous Equations & Inequalities	Variable Acceleration	Integration
• Cubic, Quartic and Reciprocal Graphs	Correlation	Rigid Bodies
Straight Line Graphs	Regression	• Further Kinematics
• Equation of a Circle	Algebraic Fractions	• Complex Numbers
• Sampling	• Sequences and Series	Matrices
Measures of Spread	• Functions	• Further Summations
Representing Data	Binomial Expansion	Volume of Revolution
Modelling in Mechanics	• Radians	
Constant Acceleration Equations	Moments	
Probability	Random Variables	
• Factor Theorem and Proof	Hypothesis Testing	
Trigonometry	• Further Trigonometry	
Differentiation	• Parametric Equations	
Integration	Normal Distribution	
Forces and Motion	• Projectiles	
Resolving Forces	Differentiation	
Vectors	Numerical Methods	
Binomial Theorem		
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
Progress tests		
	Progress tests	End of Year Mock
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
Ensuring your child completes homework and brings the	Ensuring your child completes homework and brings the	
correct Maths equipment to every lesson	correct Maths equipment to every lesson	Ensuring your child completes homework and brings the
Encuring your child is able to see and you Multitable	Encuring your child is able to access and use MuMathe	correct Maths equipment to every lesson
Ensuring your child is able to access and use MyMaths online	Ensuring your child is able to access and use MyMaths online	Ensuring your child is able to access and use MyMaths
		online

TERM 1	TERM 2	TERM 3
Term 1 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics Content Overview • Partial Fractions • Functions • Binomial Expansion • Radians • Trigonometry • Differentiation • Trigonometry continued • Statics and Dynamics	Term 2 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics <u>Content Overview</u> • Projectiles • Parametric Equations • Numerical Methods • Further Kinematics • Rigid Bodies • Vectors • Moments • Normal Distribution • Integration	Term 3 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics Content Overview • Sequences and Series • Integration continued • Proof • Regression
ASSESSMENTS	ASSESSMENTS	ASSESSMENTS
Progress test by half term and progress test at end of term	Mock exam at start of term, progress test at end of term	Ongoing exam preparation and practice
HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING	HOW PARENTS CAN SUPPORT LEARNING
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	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	Ensuring your child completes homework and brings the correct Maths equipment to every lesson Ensuring your child is able to access and use MyMaths

YEAR 13 – FURTHER MATHS EDEXCEL

TERM 1	TERM 2	TERM 3
 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics Paper 4: Core Pure Mathematics 1 Content overview 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 	 Paper 5: Core Pure Mathematics 2 Paper 6: Further Mechanics 1 Paper 7: Further Pure Mathematics 1 Content Overview Momentum and Impulse Work, Energy & Power Hooke's Law Conics Inequalities Advanced Trigonometric Approaches Collisions Elastic Collisions Sumerical Methods of Differential Equations Taylor Series Further Methods in Calculus 	Paper 7: Further Pure Mathematics 1 Content Overview REVISION
ASSESSMENTS Progress tests	ASSESSMENTS	ASSESSMENTS
HOW PARENTS CAN SUPPORT LEARNING	Progress tests HOW PARENTS CAN SUPPORT LEARNING	End of Year Mock HOW PARENTS CAN SUPPORT LEARNING
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	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	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