CURRICULUM PLAN-
MATHEMATICS

KS3:

YEAR 7

TERM 1	TERM 2	TERM 3
CONTENT **Number Skills** **Decimals and Rounding** **Algebraic Expressions**	**CONTENT** **Indices** **Solving Equations** **Ratios**	**CONTENT** **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 **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**

KS3:

YEAR 8

TERM 1	TERM 2	TERM 3
CONTENT **Sequences** **Graphs** **Basic Standard Form and rules of Indices** **Bounds**	**CONTENT** Solving complex linear Equations Averages – discrete and Continuous Ratio	**CONTENT** ****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** **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**

KS4:

YEAR 9 - Exam Board EDEXCEL – Pearson Textbook

TERM 1	TERM 2	TERM 3

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 • **End of Unit Assessments** • **Homework Assessments**	**ASSESSMENTS** • End of Unit Assessments • Homework Assessments	**ASSESSMENTS** • **End of Unit Assessments** • **Homework Assessments** • **End of Year Exam**
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 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 • **End of Unit Assessments** • **Homework Assessments**	**ASSESSMENTS** • End of Unit Assessments • Homework Assessments • Mid-Year Exams	**ASSESSMENTS** • **End of Unit Assessments** • **Homework Assessments**
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 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 **Paper 3: Statistics and Mechanics** <u>**Content overview**</u> ● **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**	**Papers 1 and 2: Pure Mathematics 1** **Paper 3: Statistics and Mechanics** <u>**Content overview**</u> ● **Trigonometry** ● **Differentiation** ● **Integration** ● **Constant Acceleration Equations** ● **Probability** ●**Forces and Motion** ● **Resolving Forces** ● **Vectors**	Papers 1 and 2: Pure Mathematics 1 Paper 3: Statistics and Mechanics <u>**Content overview**</u> ● **Integration continued** ● **Logarithms and Exponentials** ● **Variable Acceleration** ● **Correlation** ● **Regression** ● **Binomial Distribution & Hypothesis Testing**
ASSESSMENTS ◻ **Progress test by half term and progress test at end of term** **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**	**ASSESSMENTS** ◻ Mock exam at start of term, progress test at end of term **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**	**ASSESSMENTS** ◻ **Ongoing exam preparation and practise** **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**

YEAR 12 – FURTHER MATHS 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	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 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 MyMaths online	**Ensuring your child is able to access and use MyMaths online**	**Ensuring your child is able to access and use MyMaths online**

YEAR 13 MATHEMATICS EDEXCEL

TERM 1	TERM 2	TERM 3
Term 1 Papers 1 and 2: Pure Mathematics 2 Paper 3: Statistics and Mechanics <u>**Content Overview**</u> ● **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 <u>**Content Overview**</u> ● **Sequences and Series** ● **Integration continued** ● **Proof** ● **Regression**
ASSESSMENTS ◻ Progress test by half term and progress test at end of term	**ASSESSMENTS** ◻ Mock exam at start of term, progress test at end of term	**ASSESSMENTS** ◻ Ongoing exam preparation and practice
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**	**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**	**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**

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** ● **Numerical Methods of Differential Equations** ● **Taylor Series** ● **Further Methods in Calculus**	Paper 7: Further Pure Mathematics 1 **Content Overview** **REVISION**
ASSESSMENTS 　☐　　**Progress tests**	**ASSESSMENTS** 　☐　　Progress tests	**ASSESSMENTS** 　☐　　**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	**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	**HOW PARENTS CAN SUPPORT LEARNING** Ensuring your child completes homework and brings the correct Maths equipment to every lesson

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