Harrow Way Community School
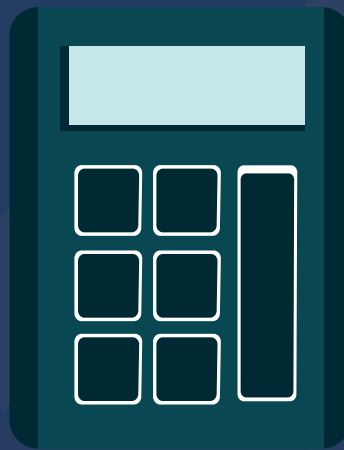
Learning for life, success for all

Curriculum Overview

MATHS

Maths - Curriculum Overview

KS3	Autumn Term		Spring Term		Summer Term	
Year 7	Number Basic Algebra Shapes & Angles Ratio & Proportion	Percentages Problem Solving - Number Equations	Fractions Perimeter & Area Basic Indices & Types Of Numbers Basic Constructions	Probability Problem Solving Week - Shapes & Algebra Pythagoras' Theorem	Expressions & Formulae Problem Solving Week - Fractions, Decimals, Percentages Tables & Averages Real Life Graphs	Inequalities Coordinates & Linear Graphs Transformations Charts & Diagrams
Year 8	Number Algebra Angles In Polygons Sequences	Percentages 3d Shapes And Volume Problem Solving - Sequences & LCM Equations	Circles Ratio & Proportion Compound Measures Data Handling	Standard Form Problem Solving Week - Ratio & Compound Measures Linear And Quadratic Graphs	Simultaneous Equations Mixed Numbers Problem Solving Week - Estimation Transformations	Probability Bearings & Loci Congruence & Similarity - Proof Scatter Graphs
Year 9	Number Algebra Circle Theorems Linear Graphs	Transformations Fractions and percentages Probability Trigonometry Cumulative Frequency and Box Plots Compound Measures	Graphs, tables and Charts Probability Averages & Range Angles Surds Transformations Quadratic Equations and Inequalities	Equations and Sequences Angles Similarity in 2D and 3D Averages from Tables Algebraic Proof Equations and Sequences	Graphs, tables and Charts Probability Averages & Range Angles Surds Transformations Quadratic Equations and Inequalities	Plans and Elevations Similarity and Congruence Perimeter, Area and Volume Ratio and Proportion Graphs

					Similarity in 2D and 3D Algebraic Proof	Multiplicative Reasoning Sequences Calculator Skills Bias and Sampling Gradients on Graphs Upper and Lower Bounds Histograms and Frequency Density Pythagoras in 2D and 3D
How can parents help?	Ensuring students are always equipped for their maths lessons, checking students have completed their homework on time every week, checking assessment dates and asking students to revise at home, purchasing any extra resources via the school online system. In addition to the Knowledge Organisers, which summarise what has been taught each term on a topic by topic basis, there are links on the VLE to useful websites (including Dr Frost with teaching videos), online textbooks, revision checklists etc. These are organised by year group and students can self enrol on the appropriate course.					

KS4	Autumn Term	Spring Term	Summer Term
Year 10	Fractions And Percentages Angles Pythagoras' Theorem And Trigonometry Mixed Numbers Constructions, Loci & Bearings 2d Shapes & Algebra Vectors	Fractions Standard Form Probability Indices Inequalities & Graphs Probability	Quadratic Equations Graphs Problem Solving Week - Trigonometry Real-Life Graphs Volume And Surface Area
Year 11	Algebra Circle Geometry Graphs Quadratic Equations Basic Number Basic Algebra Ratio and Proportion Shapes and Angles Data Handling Set Theory Statistics Vectors Functions and Iterations Real Life Graphs Tangents and Areas Under Graphs	Pythagoras Theorem Scale and Bearings Equations and Inequalities Transformations Angles at Parallel Lines Congruence Set Theory Real Life Graphs Statistics Quadratic Graphs Compound Measures Box Plot and Cumulative Frequency Rearranging Formulae Quadratic Equations and Inequalities Surds Ratio and Proportion Algebraic Proof	Revision and Exam Preparation

		Geometric Proof Growth and Decay Bounds	
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