Maths - Foundation

High achievement through challenge and support for every learner

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Probability, Properties of 2D Shapes, Measure Conversions, Perimeter of Shapes, Angles	The Four Operations, Directed Numbers, Powers and Roots, Averages	Expressions, Coordinates, Place Value– Rounding and Estimating	Charts and Graphs, Multiples and Factors	Fractions, Decimals, Ratio Introduction	Direct Proportion– Recipe Problems, Time, Area, Substitution, Transformations
8	Properties of 3D Shapes, Sequences, HCF and LCM, Simplifying Expressions	Area, Solving Linear Equations, Percentages of Amounts	Fractions, Fractions of Amounts, Coordinates	Basic Linear Graphs, Angles- Quadrilaterals and Triangles, Powers and Roots, Decimals	Averages and Range, Negative Numbers, Probability	Transformations, Calculator Skills,
9	Expressions and Formulae, Ratio, Converting Metric Units	Scale Drawings, Two Way Tables, Frequency Trees, FDP Conversions, Fractions (Operations)	Proportion– Best Buys and Recipes, Solving Linear Equations, Forming and Solving Equations	Pie Charts and Bar Charts, Comparing Charts and Graphs	Percentages, Circles, Area of Compound Shapes, Probability	Scatter Graphs, Expanding Single Brackets, Ratio, Direct and Inverse Proportion
10	Numbers, Powers and Roots, HCF and LCM, Simplifying Expressions,	Drawing and Interpreting Graphs, Charts and Tables, Systematic Listing, Perimeter, Area and Volume	Equations, Inequalities and Sequences,	Angles in Polygons and Parallel Lines, Statistics, Sampling and Averages	Perimeter, Area and Volume, Real Life and Linear Graphs, Transformations	Transformations, Ratio and Proportion
10	Numbers, Powers and Roots, HCF and LCM, Simplifying Expressions,	Drawing and Interpreting Graphs, Charts and Tables, Systematic Listing, Fractions and Percentages	Equations, Inequalities and Sequences, Angles in Polygons and Parallel Lines	Angles in Polygons and Parallel Lines, Statistics, Sampling and Averages	Fractions and Percentages, Real Life and Linear Graphs	Transformations, Ratio and Proportion
11	Pythagoras, Tree Diagrams, Percentages, Charts and Graphs Revision	Indices and Standard Form, Plans and Elevations, Constructions and Bearings,	Volume and SA. Ratio, Similar Shape, Vectors, Plotting Linear Graphs	Subject Skills & Application	Subject Skills & Application	
11	Pythagoras, Product of Primes, Probability, Prisms, Coordinates, Stem and Leaf Diagrams	Factorising and Expanding, Constructions, Tally Charts, Frequency Tables and Frequency Polygons	Rounding to Significant Figures, Pie Charts and Pictograms, FDP, Frequency Trees and Two Way Tables	Subject Skills & Application	Subject Skills & Application	

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Maths - Foundation +

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Probability, Properties of 2D Shapes, Measure Conversions, Perimeter of Shapes, Angles	The Four Operations, Directed Numbers, Powers and Roots, Averages	Expressions, Coordinates, Place Value– Rounding and Estimating	Charts and Graphs, Multiples and Factors	Fractions, Decimals, Ratio Introduction	Direct Proportion– Recipe Problems, Time, Area, Substitution, Transformations
8	Plans & Elevations, Linear Sequences, HCF/LCM and Product of Primes, Expanding Brackets, Powers and Roots	Volume of Prisms, Forming and Solving Equations, Percentages	Surface Area of Prisms, Inequalities, Angles in Parallel Lines and Polygons	Angles in Parallel Lines and Polygons, Sampling and Proportion, Averages from Tables	Loci and Construction, Ratio, Basic Direct and Inverse Proportion	Real Life Graphs, Standard Form, Scatter Graphs, Probability, Bearings
9	Plans and Elevations, Volume of Prisms and Cylinders, Sampling and Proportion, Forming and Solving Linear Equations	% Change, Expanding Brackets and Factorising	Surface Area of Prisms, HCF/LCM & Product of Primes	Linear Inequalities & Probability	Ratio, Scale and Similarity, Scatter Graphs, Frequency Polygons, Pie Charts and Bar	Two-way Tables, Comparing Charts and Data Sets, Formulae and Substitution

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Maths - Higher

High achievement through challenge and support for every learner

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Probability, Properties of 2D Shapes, Measure Conversions, Perimeter of Shapes, Angles	The Four Operations, Directed Numbers, Powers and Roots, Averages	Expressions, Coordinates, Place Value– Rounding and Estimating	Charts and Graphs, Multiples and Factors	Fractions, Decimals, Ratio Introduction	Direct Proportion– Recipe Problems, Time, Area, Substitution, Transformations
8	Plans & Elevations, Linear Sequences, HCF/LCM and Product of Primes, Expanding Brackets, Powers	Volume of Prisms, Forming and Solving Equations, Percentages	Surface Area of Prisms, Inequalities, Angles in Parallel Lines and Polygons	Angles in Parallel Lines and Polygons, Sampling and Proportion, Averages from Tables	Loci and Construction, Ratio, Basic Direct and Inverse Proportion	Real Life Graphs, Standard Form, Scatter Graphs,
9	Linear Graphs, Pythagoras	Basic Trig– SOHCAHTOA, Pythagoras and Trig Mixed, Sectors and Arcs, Column Vectors, Product Rule	Percentage Change– repeated and reverse, Tree Diagrams	Multiplicative Reasoning, Indices– recap plus basic fractional and negative	Scale and Similarity, Venn Diagrams, Factorising and Solving Quadratics, Plotting and Solving Quadratic	Plotting Cubic and Reciprocal Graphs, Linear Inequalities, Cumulative Frequency and Box Plots
10	Ratio and Linear Functions, VA and Surface Area, Vectors from Geometry, Congruence and Proof, Fractional	Algebraic Fractions, Surds, Circle Theorems	Bounds, Similarity (Lengths, Areas and Volumes)	Solving Quadratics, Linear Graphs– Parallel and Perpendicular Lines, Equations of circles and tangents	Transformations, Direct and Inverse Proportion, Iteration, Histograms	Recurring Decimals to Fractions, Triple Brackets, Advanced Trigonometry
11	Non-linear Simultaneous Equations, DT and VT Graphs, Functions, Capture/Recapture, Quadratic	Quadratic Sequences, Trig Graphs, Transformations of Graphs, Algebraic Proof	Equations of Circles and Tangents, Advanced Trigonometry	Subject Skills & Application	Subject Skills & Application	
11	Non-linear Simultaneous Equations, Advanced Trigonometry, Functions, Capture/Recapture– sampling	Iteration, Histograms, Pythagoras in 3D. Algebraic Proof, Plotting Trig and Exponential Graphs	Transformations of Graphs, Direct and Inverse Proportion, Quadratic Sequences	Subject Skills & Application	Subject Skills & Application	

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Maths & Further Maths

High achievement through challenge and support for every learner

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
12	Quadratics, Expressions, Equations, Inequalities, Transformations, Trigonometry, Ratios, Data Collection, Location & Spread, Trigonometry Identities & probability	Differentiation, Statistical Distributions, Hypothesis Testing, Representations of Data, Integration & Correlation	Modelling in Mechanics, Vectors, Constant Acceleration, Circles, Forces & Motion	Variable Acceleration, Algebraic Methods, Exponentials & Logs & B Binomial Expansion	Algebraic Methods, Functions & Graphs	Sequences, Series & Binomial Expansion
12 FM	Complex Numbers, Series, Argand Diagrams & Matrices	Vectors, Roots of Polynomials, Proof by Induction & Linear Transformations	Algorithms, Graphs & Networks, Route Inspection, Discrete Random Variables & Poisson Distribution	Linear Programming, Critical Path Analysis, Chi Squared Testing, Volumes of Revolution & Hypothesis Testing	Geometric & Negative Binomial Distributions & Algorithms on Graphs	Hypothesis Testing & The Travelling Salesman Problem
13	Parametric Equations, Normal Distribution, d Differentiation, Regression & Hypothesis Testing	Conditional Probability, Numerical Methods, Moments & Integration	Forces & Friction, Projectiles, Vectors, Functions & Graphs	Application of Forces, Binomial Expansion, Sequences & Series	Subject Skills & Application	
13 FM	Elastic Strings & Springs, Quality of Tests & CLT	Complex Numbers, Series & Polar Coordinates	Hyperbolic Functions, Methods in Differential Equations	Methods in Calculus, Modelling with Differential Equations & Volumes of Revolutions	Subject Skills & Application	

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