



Long Term Planning – Mathematics / Numeracy

| Year | Term 1A | Term 1B | Term 2A | Term 2B | Term 3A | Term 3B |
|---------------|--|--|---|---|--|--|
| Year 7 | Algebraic thinking | Place value and proportion | Applications of number | Directed number, Fractional thinking | Lines and Angles | Reasoning with number |
| | Sequences, Algebraic notation, Equality and equivalence | Place value / ordering integers / decimals, Fraction, decimal and percentage | Solving problems with the four processes, Fractions and percentages | Operations and equations, Addition and subtraction of fractions | Constructing, measuring and using geometric notation, Developing geometric | Developing number sense, Sets and probability, Prime numbers and proof |
| Year 8 | Proportional Reasoning | Representations | Algebraic Techniques | Developing Number | Developing Geometry, Angles in parallel lines and polygons, | Reasoning with Data |
| | Ratio and scale, Multiplicative change, Multiplying and dividing fractions | Working in the cartesian plane, Representing data, Tables and probability | Brackets, Equations and inequalities, Sequences, Indices | Fractions and percentages, Standard index form, Number sense | Area of trapezia and circles, Line symmetry and Reflection | The Data Handling Cycle, Measures of location |
| Year 9 | Reasoning with Algebra | Constructing in 2 & 3 dimensions | Reasoning with number | Reasoning with Geometry | Reasoning with proportion | Representations |
| | Straight line graphs, Forming and solving equations, Testing Conjectures | Three dimensional Shapes, Constructions and Congruency | Numbers, Using percentages, Money | Deduction, Rotation and translation, Pythagoras' Theorem | Enlargement and Similarity, Solving ratio and proportion problems, Rates | Probability Algebraic representation |

Additional Notes: Revision Guides - www.bbc.co.uk/bitesize - www.corbettmaths.com - www.studymaths.co.uk - www.khanacademy.org - www.purplemaths.com



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|---------------------|---|---|--|---|---|--|
| Year 10 CORE | Number system, Squares, Cubes, Roots, Sets and Venn diagrams | Indices (numerically and algebraically) and Standard form Ordering of operations | Co-ordinate geometry, Bounds | Number sequences Practical graphs Percentages Time | Personal and small business finance | Geometrical construction, Scale drawings, Similar figures |
| | Basic Algebra Fractions, Decimals and percentages Ordering | Estimates Equations | Ratio, Proportion and rate | Money, Graphs of functions | Geometrical language | Congruent shapes Revision |
| Year 10 Ext. | Number, Ratio, HCF, LCM, Percentages, Money, Interest, BIDMAS, Growth, Frac. | Algebra and Graphs, Indices, Equations, Functions, Proportion, Curves, Powers | Algebra and Graphs, Sequences, Real-Life, Tangents | Coordinate Geometry, Cartesian coordinates, Gradients, Length, Midpoint Equations | Geometry, vocabulary, compass and ruler, scale, symmetry, Circle theorems | Mensuration, Area, Perimeter, Volume, Circumference, Conversions |
| Year 11 CORE | Trigonometry, Vectors and Transformations | Probability, Statistics, Data and Graphs | Overspill and revision | Revision | | |
| | Bearings, Pythagoras, SOHCAHTOA, Translation, Reflection | Event, Scale, Frequency, Non-occurrence, Tree and Venn Diagrams | | | | |
| Year 11 Ext. | Number sequences, Quadratic equations, Trigonometry, Graphs, Direct and inverse | Probability, Classify, Interpret and compare, Correlation | Linear programming, Functions, Derivatives, Symmetry, Vectors and transformation | Cumulative frequency | Revision | |

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