## Maths Curriculum Map

| Data, Primes, Factors and Multiples | Algebraic Manipulation, Accuracy and Rounding | Mensuration, Geometric Constructions and Calculations | Direct and Inverse Proportion and Percentage Change | Fractions \& Decimals, Indices and Standard Form | Equations of graphs and Inequalities, Compound Units and 2D \&3D Representations |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Data <br> Populations and samples <br> $>$ Summary statistics <br> > Categorical and numerical data <br> > Summary Statistics <br> > Mis- representing data <br> Primes, Factors and Multiples <br> > Prime numbers <br> > Prime numbers / Index Notation <br> > Highest Common Factor (HCF) and Lowest Common Multiple (LCM) | Algebraic Manipulation <br> Collecting like terms. <br> Simplifying products and quotients. <br> Multiplying out brackets <br> Multiplying out brackets <br> Factorising <br> Substitution into formulae <br> Change the subject of a formula. <br> Formulate algebraic expressions <br> Algebraic terminology and proofs <br> Accuracy and Rounding <br> Rounding <br> Estimation <br> Upper and lower bounds | Mensuration <br> Circle nomenclature / <br> Circumference of a circle <br> Area of a circle <br> Polyhedra <br> Pyramids, Cones and spheres <br> Pythagoras' theorem <br> Trigonometry in rightangled triangles <br> Exact trig ratios <br> Geometric constructions and calculations <br> Perpendicular bisector. <br> Angle Bisector <br> Loci <br> > Angles at a point/on a line / between intersecting and parallel lines <br> > Angles in polygons <br> $>$ Properties of a triangle <br> $>$ Properties of quadrilaterals | Direct and Inverse Proportion <br> Equivalent ratios <br> Ratios and fractions <br> Division in a given ratio <br> Solve ratio and proportion problems <br> Direct proportion <br> Inverse proportion <br> Percentage Change <br> Percentage conversions <br> Percentage calculations <br> Percentage change <br> Growth and decay <br> Solving of Equations <br> Graphs of equations and functions <br> Approximate solutions using a graph <br> Simultaneous equations <br> Linear equations in one unknown <br> Quadratic equations | Fractions and Decimals <br> Calculations with fractions. <br> Calculations with fractions. <br> Fractions of a quantity <br> Decimals and fractions <br> Division of decimals <br> Bivariate data and Outliers <br> Indices and Standard Form <br> Index notation powers and roots Laws of indices Calculations with numbers in standard form | Equations of graphs and Inequalities <br> Inequalities in one variable <br> Graphs of equations and functions <br> Straight line graphs <br> Compound Units <br> Units of measurement <br> Compound units <br> 2D \&3D Representations <br> Maps and Scale drawings <br> Plans and elevations <br> Surface Area, Volume, Plans and elevations. |

## Assessments

Students are assessed at the end of Year 11 with three 1 hour 30-minute terminal examinations. There will be one non-calculator paper and two calculator papers

## Maths Curriculum Map

| Geometric Review and Probability | Probability, Sequences and Graphs | Transformations and Similar Figures, | Functions, Graphs and Vectors | Revision |
| :---: | :---: | :---: | :---: | :---: |
| Geometric Review <br> Angles <br> > Circle nomenclature <br> $>$ Measuration in circles <br> > Properties of quadrilaterals <br> > Properties of a triangle <br> > Pythagoras and trigonometry <br> $>$ Straight line graphs <br> > Parallel and perpendicular lines <br> $>$ Straight line graphs. <br> Probability <br> The probability scale <br> Equally likely outcomes and probability <br> Relative frequency and probability | Probability <br> Sample spaces <br> Enumeration <br> Venn diagrams and sets <br> The addition law of probability <br> $>$ Tree diagrams <br> > The multiplication law of probability and conditional probability <br> Sequences <br> Generate terms of a sequence <br> Special sequences <br> Graphs <br> > Straight line Graphs <br> > Pythagoras <br> $>$ Perimeter <br> $>$ Areas <br> $>$ Graphs of real-world contexts <br> > Gradients | Transformations <br> Reflection <br> > Rotation <br> > Column Vectors, Translation <br> Similar Figures <br> > Congruent triangles <br> > Applying congruent triangles <br> > Similar triangles <br> $>$ Enlargement <br> > Similar shapes <br> - Exact calculations <br> > Volumes and surface area calculations | Functions and Graphs <br> Polynomial functions <br> Functions <br> Graphs of equations and functions <br> Vectors <br> Calculations with fractions. <br> Calculations with fractions. <br> Fractions of a quantity <br> Decimals and fractions <br> Division of decimals <br> Bivariate data and Outliers |  |

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