

**Kings Curriculum Map**  
**Subject Name – Maths**

**Blue – Foundation,    Green – Top Foundation,    Brown – Borderline    Purple – Higher,    Red – Top Higher**

|               | Autumn Term   | Spring Term  | Summer Term   |
|---------------|---|--|---|
| <b>Year 9</b> | <p>Angles and Lines, Triangles and Quadrilaterals, Polygons, Pythagoras, Place Value, Adding and Subtracting, Multiplying and Dividing, Terms and Expressions, Indices, Sampling, Organising Data, Representing Data, Averages and Spread.</p> <p>Angles and Lines, Triangles and Quadrilaterals, Polygons, Pythagoras, Place Value, Rounding, Adding and Subtracting, Multiplying and Dividing, Terms and Expressions, Indices, Expanding and Factorising, Sampling, Organising Data, Representing Data, Averages and spread.</p> <p>Angles, Lines, Triangles and Quadrilaterals, Polygons, Pythagoras, Place Value and Rounding, Adding and Subtracting, Multiplying and Dividing, Terms and Expressions, Indices, Expanding and Factorising, Fractions, Sampling, Organising Data, Representing Data, Averages and Spread, Fractions, Decimals and Percentages, Equations.</p> <p>Angles and Lines, Triangles and Quadrilaterals, Polygons, Pythagoras, Place Value and Rounding, Adding and Subtracting, Multiplying and Dividing, Terms and Expressions, Indices, Expanding and Factorising, Fractions, Sampling, Organising Data,</p> | <p>Expanding and Factorising, Fractions, Decimals and Percentages, Formula and Functions, Equations, Fractions, Measuring lengths and angles, Area, Probability.</p> <p>Fractions, Decimals and Percentages, Fractions, Formula and Functions, Equations, Measuring Lengths and angles, Area, Trigonometry, Probability.</p> <p>Equivalence of Algebra, Expanding and Factorising, Measuring lengths and angles, Congruence and Similarity, Area, Trigonometry, Simultaneous Equations, Rounding and Estimating, Calculator Methods, Probability.</p> <p>Equivalence of Algebra, Expanding and Factorising, Measuring Lengths and Angles, Congruence and Similarity, Area, Trigonometry, Simultaneous Equations, Rounding and Estimating, Calculator Methods, Probability.</p> <p>Equivalence of Algebra, Expanding and Factorising, Measuring Lengths and Angles, Congruence and Similarity, Area, Trigonometry, Simultaneous</p> | <p>Equations, 3D Shapes, Graphs, Congruence and similarity, Circles, Transformations.</p> <p>3D shape, Graphs, Circles, Congruence and Similarity, Transformations.</p> <p>Measure and Accuracy, Quadratic Equations, Circles, Formulae, Transformations.</p> <p>Measure and Accuracy, Quadratic Equations, Circles, Formulae, Transformations.</p> <p>Measure and Accuracy, Quadratic Equations, Circles, Formulae, Transformations, Sets.</p> |

|                       |  |   |  |
|-----------------------|--|---|--|
|                       | <p>Representing Data, Averages and Spread, Fractions, Decimals and Percentages, Equations.</p> <p>Angles and Lines, Triangles and Quadrilaterals, Polygons, Pythagoras, Place Value and Rounding, Adding and Subtracting, Multiplying and Dividing, Terms and Expressions, Indices, Expanding and Factorising, Fractions, Sampling, Organising Data, Representing Data, Averages and Spread, Fractions, Decimals and Percentages, Equations.</p>   | <p>Equations, Rounding and Estimating, Calculator Methods, Probability.</p>   |  |
| <p><b>Year 10</b></p> | <p>Proportion, Ratio, Percentage Change, Factors and Multiples, Powers and Roots, Expanding and Factorising, Formulae, Equations, 3D shape, Frequency Diagrams, Scatter Graphs and Correlation.</p> <p>Proportion, Ratio, Percentage Change, Factors and Multiples, Powers and Roots, Equations, Simultaneous Equations, 3D shape, Formulae, Equations, identities and functions, Pythagoras, Frequency Diagrams.</p> <p>Standard Form, Proportion, Ratio, Percentage Change, Indices, Surds, Averages, Cumulative Frequency and Box Plots, Histograms, Graphs, 3D shape, Sectors, Equations.</p> <p>Standard Form, Proportion, Ratio, Percentage Change, Indices, Surds, Averages, Cumulative Frequency and Box Plots, Histograms, Graphs, 3D Shape, Sectors, Equations, Quadratic Equations.</p> | <p>Pythagoras, Equations, identities and functions, Averages and spread, Time Series, Indices, Circles, Graphs, Fractions, Trigonometry.</p> <p>Averages and Spread, Scatter Graphs and Correlation, Time Series, Indices, Exact Calculations, Standard Form, Trigonometry, Angles, Polygons and Quadrilaterals, Compound Measure.</p> <p>Factors and Multiples, Kinematic Graphs, Scatter Graphs, Time Series, Simultaneous Equations, Indices, Quadratic Equations, Fractions, Pythagoras and Trigonometry, Graphs.</p> <p>Factors and Multiples, Kinematic graphs, Scatter graphs, Time Series, Simultaneous Equations, Indices, Exact Calculations, Pythagoras and Trigonometry.</p> <p>Factors and Multiples, Kinematic graphs, Scatter Graphs, Time Series Simultaneous Equations, Indices, Exact Calculations, Pythagoras and Trigonometry, Graphs and Real-life Graphs.</p> | <p>Angles, Polygons and Quadrilaterals, Inequalities, 3D shape, Percentage Change, Estimation and approximation, Sets, Sample Space, Finance Project.</p> <p>Inequalities, Estimation and approximation, Calculator Methods, Expanding and Factorising, Sets Sample Space, Finance Project.</p> <p>Real life Graphs, Quadratic Equations, Measure and Accuracy, Trigonometry, Percentage Change, Formulae, Sets, Tree Diagrams, Finance Project.</p> <p>Graphs, Real Life Graphs, Quadratic Equations, Surds, Trigonometry, Measure and Accuracy, Formulae, Sets, Tree Diagrams, Finance Project.</p> <p>Measure and Accuracy, Gradients and areas under graphs, Circles, Trigonometry and Pythagoras, Formulae, Sets, Tree Diagrams, Finance Project.</p> |

|                |  |  |  |
|----------------|--|--|--|
|                | Standard Form, Proportion, Ratio, Percentage Change, Surds, Averages and Spread, Cumulative Frequency and Box Plots, Histograms, Graphs, 3D shape, Sector, Equations, Quadratic Equations.   |  |  |
| <b>Year 11</b> | <p>Equations, Sequences, Inequalities, Proportion, Ratio, Percentage Change, Pythagoras, Trigonometry, Proof, Graphs, Indices, Expanding Brackets, Standard Form, Transformations.</p> <p>Equations, Simultaneous Equations, Sequences, Inequalities, Proportion, Ratio, Percentage Change, Pythagoras, Trigonometry, Proof, Graphs, Quadratic Equations, Standard Form, Transformations.</p> <p>Sequences, Direct and Inverse Proportion, Compound Measure, Converting between units, Quadratic Equations, Iteration, Rates of Change, Growth and Decay, Data Handling, Pythagoras and Trigonometry, Inequalities, Fractions, Algebraic Fractions, Angles, Polygons and Quadrilaterals.</p> <p>Sequences, Compound Measure, Converting between units, Iteration, Rates of Change, Growth and Decay, Circle Theorems, Pythagoras and Trigonometry, Direct and Inverse Proportion, Inequalities, Functions.</p> | <p>Fractions, Circles, 3D shapes, Kinematic Graphs, Vectors, Congruence and Similarity, Data Handling, Compound Units, Direct Proportion, Angles, Quadrilaterals, Polygons, Sets, Sample Space Diagrams, Tree Diagrams, Measures and accuracy, Volume and Surface area.</p> <p>Fractions, Circles, 3D shape, Indices, Kinematic graphs, Vectors, Congruence and Similarity, Data Handling, Compound Units, Direct and Inverse Proportion, Angles, Quadrilaterals and Polygons. Sets, Sample Space Diagrams, Tree Diagrams, Measures and Accuracy, Volume and Surface Area.</p> <p>Vectors, 3D shapes, Simultaneous Equations, Functions, Inequalities, Gradients and Area under Graphs, Circle Theorems, Special Sequences, Exponential and Trigonometric Functions, Construction and Loci, Circle and Quadratic Equations.</p> <p>Vectors, Simultaneous Equations, Quadratic Equations, Construction and Loci, Algebraic Fractions, Revision.</p> | <p>Construction, Loci, Expanding and Factorising, Revision.</p> <p>Construction, Loci, Revision</p> <p>Revision</p> <p>Revision</p>  |
| <b>Year 12</b> | <p><b>Maths</b></p> <p>Algebraic Expressions, Quadratic Functions, Simultaneous Equations, Binomial Expansion, Algebraic Division, Factor Theorem, Proof, Differentiation, Integration, Vectors, Straight Line Graphs.</p>   | <p><b>Maths</b></p> <p>Circles, Trigonometry, Inequalities, Graphs, Transformations Exponential and Logs, Data Collection, Measure of location and spread, Representing data</p>   | <p><b>Maths</b></p> <p>Probability, Statistical Distributions, Hypothesis Testing, Modelling in Mechanics, Constant acceleration, Forces and Motion, Variable Acceleration. Algebraic and Partial Fractions, Radians, Small Angles, Trigonometric Functions.</p> |

|                       |   |  |   |
|-----------------------|---|--|---|
|                       | <p><b>Further Maths</b><br/>Complex Numbers, Matrices, Series, Algorithms, Graphs and Networks, Algorithms on graphs, Linear Programming.</p>   | <p><b>Further Maths</b><br/>Algebra and Functions, Proof by induction, Vectors, Calculus, Critical Path Analysis, The travelling Salesman Problem, Simplex algorithms.</p>   | <p><b>Further Maths</b><br/>Complex Numbers. Poisson Distribution, Discrete Random Variables.</p>         |
| <p><b>Year 13</b></p> | <p><b>Maths</b><br/>Trigonometry, Differentiation, Integration. The Normal Distribution, Probability, Regression and Correlation.</p> <p><b>Further Maths</b><br/>Hyperbolic Functions, Polar Coordinates, Series, Chi Squared Tests, Geometric and Negative Binomial Distributions, Hypothesis Testing, Central Limit Theorem, Probability Generating Functions, Quality of Tests.</p> | <p><b>Maths</b><br/>Functions and Modelling, Proof, Series and Sequences, The Binomial Theorem, Arcs and Sectors, Parametric Equations. Forces at any angle, Further Kinematics, Projectiles, Friction, Static Particles, Moments.</p> <p><b>Further Maths</b><br/>Polar Coordinates (part 2), Methods in Calculus, Volumes of Revolution, Methods in Differential Equations, Modelling with Differential Equations.</p> | <p><b>Maths</b><br/>Numerical Methods, Vectors 3D, Revision.</p> <p><b>Further Maths</b><br/>Revision</p> |