

| | | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|---------|-----------------------|---|--|--|--|--|---|
| Year 10 | Brief summary of unit | 1 Expressions 2 Calculations 1 3 Angles and polygons | 4 Data handling 1 and 2 5 Fractions, decimals and percentages | 6 Formulae and functions 7 Working in 2D | 8 Probability 9 Measures and accuracy | 10 Equations and inequalities 11 Ratio and proportion 12 Factors, powers and roots | 13 Circles Year 10 Exams 14 Constructions and loci |
| | Detail | Simplifying expressions Indices Expanding and factorising Algebraic fractions Place value and rounding Adding and subtracting Multiplying and dividing Angles and lines Triangles and quadrilaterals Congruence and similarity Polygon angles | Sampling Organising data Representing data 1 Averages and spread (including quartiles and the interquartile range) Frequency diagrams Box plots Cumulative frequency Scatter graphs and correlation Time series Fractions and percentages Calculations with fractions Fractions, decimals and percentages | Formulae Functions Equivalences in algebra Expanding and factorising double brackets Measuring lengths and angles Area of a 2D shape Transformations (rotations, reflections, translations and enlargements) | Probability experiments Theoretical probability Mutually exclusive events Estimation and approximation Calculator methods Measures and accuracy, including upper and lower bounds | Solving linear equations Solving quadratic equations using factorisation, completing the square and the quadratic formula Solving simultaneous equations Approximate solutions using iterative methods Solving inequalities Proportion Ratio and scales Percentage change and reverse percentages Factors and multiples Powers and roots including laws of indices Surds | Area and circumference of circles Calculate arc lengths and areas of sectors End of year 10 exams Constructions and loci |
| | Assessment | Test on... Expressions Calculations 1 Angles and polygons | Test on... Data handling 1 and 2 Fractions, decimals and percentages | Test on... Formulae and functions Working in 2D | Test on... All material covered in this term and previous terms | Test on... Equations and inequalities Ratio and proportion Factors, powers and roots | Test on... All material covered throughout Year 10 |

| | | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|------------|-----------------------|--|--|---|--|---|---|
| Year 11 | Brief summary of unit | 15 Graphs 1 16 Working in 3D 17 Circle theorems | 18 Calculations 2 19 Graphs 2 | 20 Pythagoras and trigonometry 21 Combined events | 22 Sequences 23 Units and proportionality | Revision and preparation for GCSE Exam | Revision and preparation for GCSE Exam |
| | Detail | Equation of a straight line Linear and quadratic functions Properties of quadratic functions Kinematic graphs 3D solids Volume of a prism Volume and surface area of spheres, pyramids, cones and composite solids. Circle theorems | Calculating with roots and indices Exact calculations Standard form Cubic and reciprocal functions Exponential and trigonometric functions Real-life graphs Gradients and areas under graphs Equation of a circle | Pythagoras' theorem in 2D and 3D Trigonometry ratios The sine and cosine rules Pythagoras and trigonometry problems Vectors Venn diagrams and set notation Possibility space diagrams Tree diagrams Conditional probability | Linear sequences Quadratic sequences Special sequences Compound units Converting between units Direct and inverse proportion Rates of change Growth and decay | | |
| Assessment | | Test on... Circles, constructions and loci Graphs 1 Working in 3D Handling data 2 | GCSE Mock 1 Exam on all topics Weeks beginning 28 th November 2016 and 5 th December 2016 | Test on... Calculations 2 Graphs 2 Pythagoras and trigonometry Combined events | GCSE Mock 2 Exam on all topics Week beginning 20 th February 2016 | GCSE Paper 1 (Non-Calculator paper) Thursday 8 th June 2017 | GCSE Paper 2 (Calculator paper) Thursday 8 th June 2017 Paper 3 (Calculator paper) Tuesday 13 th June 2017 |