

Long Term Plan Maths

2025-2026: Green Year

| Year | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 |
|----------------|---|--|--|--|---|--|
| KS3 Green Year | <ul style="list-style-type: none"> Sequences Finding the rule of a sequence and the next term in a sequence Function machines Substitution Collecting like terms Solve linear equations Explore equal parts Fractions on a number line Explore percentages Explore equivalencies Place value | <ul style="list-style-type: none"> Fraction, decimal and percentage equivalence Explore percentages Explore fractions Problem solving with addition and subtraction Using finance in maths Frequency trees Problem solving with multiplication and division | <ul style="list-style-type: none"> Multiply by integers and decimals Divide by integers and decimals Understand sharing and grouping Order of operations Fractions of amounts Percentages of amounts | <ul style="list-style-type: none"> Negative numbers Add and subtract negative numbers Multiply and divide negative numbers Use four operations with negative numbers Adding fractions | <ul style="list-style-type: none"> Add and subtract fractions Convert improper and mixed fractions Equivalent fractions Simplify fractions Draw and measure line segments Estimation Convert metric units Classify angles | <ul style="list-style-type: none"> Estimating angles Using protractors Measuring angles Draw and recognise angles Recognise types of triangles Recognise types of quadrilaterals Identify polygons Recognise angles of a turn Calculate angles in a triangle Calculate perimeter |
| KS3 Blue Year | <ul style="list-style-type: none"> Calculate area Probability scales Listing outcomes Experiments with probability Identify factors and multiples Identify prime numbers Identify square, cube and prime numbers Understand ratio Link ratio and fractions | <ul style="list-style-type: none"> Simplify ratio Divide into a ratio Unitary method Proportion Using recipes Currency conversion Conversion graphs Scale diagrams Represent fractions Convert improper and mixed fractions Multiply fractions by an integer and fraction | <ul style="list-style-type: none"> Coordinates Table of values Graphs $y=mx + c$ Straight line graphs Read and interpret tables Scatter graphs Types of correlation Line of best fit Two-way tables Probability | <ul style="list-style-type: none"> Sample space diagrams Directed number Collect like terms Multiply and divide directed number Expand brackets Factorise expressions Solve equations | <ul style="list-style-type: none"> Generate sequences Generate sequences using algebra Index notation Simplify expressions Collect like terms Fractions, decimal and percentage equivalence Fraction of an amount Understanding percentages | <ul style="list-style-type: none"> Index form Standard form Add and subtract decimals Multiply and divide decimals Rounding decimals Angle facts Angles in a triangle Angles in a quadrilateral Angles in parallel lines Calculating area |
| Number | | Geometry | | Algebra | | Statistics |
| | | | | | | Ratio |

| Year | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 |
|--------|---|---|---|--|---|--|
| Y10 | <ul style="list-style-type: none"> Substitution Collect like terms Index laws Expand single brackets Factorise Solve equations Solve inequalities Represent inequalities Rearrange formulae Expand double brackets Percentages | <ul style="list-style-type: none"> Percentage increase and decrease Express one number as a fraction or percentage of another Percentage change Simple interest Equivalent ratio Divide into ratio Link ratio and fractions Ratio and scales Fraction of an amount Increase or decrease by a fraction Equivalent fractions | <ul style="list-style-type: none"> Add and subtract fractions Multiply and divide fractions Place value for integers and decimals Compare and order numbers Multiply and divide with integers and decimals Four operations with directed number Order of operations Straight line graphs Calculate the gradient $y = mx + c$ | <ul style="list-style-type: none"> Equation of a line Midpoint of a line Calculating probability Listing outcomes Relative frequency Sample space diagrams Two-way tables Frequency trees Rounding to decimal places Rounding to significant figures | <ul style="list-style-type: none"> Estimating answers Using a calculator Calculating perimeter Calculating area Label a circle Area and circumference of a circle Volume of prisms Nets Surface area of shapes | <ul style="list-style-type: none"> Calculating averages Ungrouped and grouped frequency tables Averages from a grouped frequency table Types of data Scatter graphs Angle facts Interior and exterior angles of polygons Angles in parallel lines Pictograms Line and bar charts |
| Y11 | <ul style="list-style-type: none"> Simplify ratio Divide into ratio Maps and scales Calculating speed, distance and time Calculate density Exchange rates Converting miles and kilometres Direct proportion Standard form Rounding decimal places | <ul style="list-style-type: none"> Rounding significant figures Index laws Solving equations Solve inequalities Interpret and use coordinates Straight line graphs Interpret $y=mx + c$ Speed distance time graphs Types of angles Angle rules | <ul style="list-style-type: none"> Angles in parallel lines Types of triangles Types of quadrilaterals Angles in polygons Similar shapes Collecting like terms Expand and factorise expressions Index Laws Simultaneous equations | <ul style="list-style-type: none"> Explore sequences Nth term of sequences Probability Sample space diagrams Plans and elevations Constructions Bar and line charts Two-way tables Pie charts Scatter graphs | <ul style="list-style-type: none"> Mixed exam practice Pythagoras' Theorem Trigonometry – finding the missing sides and missing angles <p>Revision/Exam</p> <p>Non-calculator paper 1 – May</p> <p>Calculator paper 2 – June</p> <p>Calculator paper 3 – June</p> | <p>Topics as required based analysis of the papers sat so far during this exam series</p> <ul style="list-style-type: none"> Real life maths – finance Understanding wage slips Budgeting for a holiday Budgeting for a car |
| Number | | Geometry | | Algebra | | Statistics |
| | | | | | | Ratio |

Half Termly Career Focus

| | HT1 | HT2 | HT3 | HT4 | HT5 | HT6 |
|-------|----------------------|------------------------|--------------------|--|---|---|
| Blue | Production Worker | Engineer | Architect | Careers Focus per Lesson including Market Researcher, Carpet Fitter & Product Designer | Careers Focus per Lesson including Fashion Designer, Sport Commentator, Baggage Handler | Careers Focus per Lesson including Sports Analyst, Call Centre Agent, Artist |
| Green | Small business owner | Quantity Surveyor | Baker | Coastguard | Tiler | Accountant |
| Y10 | Financial Planner | Video games programmer | Graphic Designer | Careers Focus per Lesson including Data Analyst, Microbiologist & Software Developer | Careers focus per lesson including Landscaper, Scaffolder, & Insurance broker | Careers focus per lesson including Metrologist, Drone Pilot, Construction Manager |
| Y11 | Fashion Designer | Gardener | Carpenter / Joiner | Interior designer | Exam prep, no specific linked careers | Exam prep, no specific linked careers |