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| **Year** | **HT1** | | **HT2** | **HT3** | | **HT4** | | **HT5** | | **HT6** |
| **KS3 Blue Year** | * Directed numbers (Adding, subtracting, multiplying and dividing) * Methods of dividing * Methods of multiplying * Units – length and measuring * Units – reading scales * Place Value * Ordering decimals * Place value and decimals * Money problems – best buys, exchange rates and tax * Density, mass and volume * Speed, distance and time * Adding and subtracting decimals | | * Angles – naming, drawing, measuring * Angles – calculating * Angles in parallel lines * Drawing triangles * Perimeter of rectangles, triangles, parallelograms, compounds * Area of rectangles, triangles, trapeziums and compounds * Circles – parts, circumference, area & compounds | * Algebraic notation & terminology * Substitution * Simplifying expressions (collecting, multiplying, dividing) * Expanding brackets * Factorising expressions * Forming expressions & formulae, rearranging formulae * Fractions, decimals and percentages * Expressing a quantity as a percentage of another * Calculating percentages of a quantity (with and without calculator) * Percentage increase and decrease * Reverse percentage * Compound interest | | * Properties of triangles * Transformations * Angles – types of angles * Calculate the difference between area and perimeter * Calculate volume and surface area * Understand and use Venn diagrams * Ratio and proportion * Pythagoras’ Theorem * Square roots | | * Properties of shape * Angles in parallel lines * Angles in polygons (interior and exterior) * Tessellations * Types of angles – to include drawing and measuring * Loci * Best buys/proportion * Pie charts * Pictograms * Frequency tables * Bar charts | | * Equations 1 * Equations 2 * Solving arithmetic problems * Scale drawings * Calculator skills |
| **KS3 Green**  **Year** | * Operations * Inverse operations * BIDMAS * Factors * Multiples * Prime numbers * LCM and HCF * Rounding and estimating * Significant numbers * Order of operations * Introducing probability * Probability scale 1 | | * Multiplication * Multiplying by 10 and 100 * Mental methods of multiplication * Written methods of multiplication * Measuring lines * Reading scales * Time * Sequences * Describing sequences * Using rules * Sequences with negative numbers | * Using letters 1 * Using letters 2 * Adding with symbols * Writing fractions * Equivalent fractions * Improper fractions * Fractions of an amount 1 * Reading and drawing pictograms * Reading and drawing bar chart | | * Naming angles * Using a protractor * Drawing angles * Measuring angles * Calculating angles * Coordinates * Coordinates within 4 quadrants * Angles in a triangle * Angles in quadrilaterals * Sorting with venn diagrams * Properties of 2D Shapes * Properties of 3D Shapes including nets | | * Reflection * Translations * Rotation * Enlargement * Symmetry * Tessellations * Data collection and surveys * Line charts * Mode, Median, Mean and Range * Stem and Leaf * Real life graphs * Tally charts and frequency tables | | * Ratio and proportion 2 * Fractions of an amount 2 * Probability scale 2 * Calculator methods * Place value 2 * Mental methods of multiplication 2 * Mental methods of dividing 2 * Introducing circles * Ordering decimals 2 * Rounding to integers 2 * Rounding to decimal places * Rounding to significant figures * Estimating |
| **Number** | | **Geometry** | | | **Algebra** | | **Statistics** | | **Ratio** | |

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| **Year** | **HT1** | **HT2** | **HT3** | | **HT4** | | **HT5** | | **HT6** |
| **Y10** | * Place Value * Four operations * Approximations * Factors, multiple and primes * Introduction to fractions   + Adding & subtracting   + Multiplying & dividing * Fractions, decimals and percentages * Introduction to percentages   + Percentage change   + Reverse percentages   + Increase and decrease | * BIDMAS (four operations) * Indices, powers and roots * Standard form * Rounding & Estimation * Intro to probability * Experimental Probability * Probability Trees * Sample Space Diagrams * Ratio and proportion * Labelling Circles * Calculating Circumferences * Area of Circles * Area of a Sector * Length of an Arc | * Algebra basics   + Collecting terms   + Algebra notation   + Solving equations   + Expanding brackets   + Factorising * Expressions and substitutions * Straight line graphs * Area (Rectilinear) * Perimeter (Rectilinear) | | * Angles   + Basic facts   + Parallel lines   + Triangles   + Quadrilaterals * Algebra   + Sequences   + Nth Term * Scatter graphs * Coordinates and plotting in 4 quadrants * Straight line graphs * Compare gradients and line intercepts | | * Angles (Recap task)   + Reasoning with angles * Solving equations (RECAP) * Equalities/Inequalities * Symmetry – line and rotational * Transformations   + Translation   + Reflection   + Rotation   + Enlargement * Construction   + Line segment   + Angle bisector   + Loci   + Exam practice calc/non calc | | * Unit conversion * Scale drawings * Bearings * Isometric drawings * Plans and elevations * Sets & Venn diagrams * Averages (Mode, median and range) |
| **Y11** | * Factors, multiple and primes * Introduction to fractions   + Adding & subtracting   + Multiplying & dividing * Fractions, decimals and percentages * Percentages   + Percentage change   + Reverse percentages   + Increase and decrease * Indices, powers and roots * Standard form * Rounding & Estimation * Probability   + Experimental   + Trees   + Sample space | * Ratio and proportion * Calculating Circumferences * Area of Circles * Area of a Sector * Length of an Arc * Algebra basics   + Collecting terms   + Algebra notation   + Solving equations   + Expanding brackets   + Factorising * Substitution * Straight line graphs * Area (Rectilinear) * Perimeter (Rectilinear) | * Angles   + Basic facts   + Parallel lines   + Triangles   + Quadrilaterals * Algebra   + Sequences   + Nth Term * Scatter graphs * Volume and surface area * Pie Charts * Real life graphs * Coordinates and midpoints | | * Equations & Inequalities * Transformations   + Translation   + Reflection   + Rotation   + Enlargement * Construction   + Perpendicular   + Loci   + Angle bisector   + Perpendicular line through given point * Unit conversion * Scale drawings * Bearings * Revision focus x 6 lessons – to include prime factorisation and Venn diagrams (Improvement topics from mock exams and new functional skills topics L2) | | * **Mixed exam practice** * **Pythagoras’ Theorem** * **Trigonometry – finding the missing sides and missing angles**   **Revision/Exam**  **Non-calculator paper 1 – May**  **Calculator paper 2 – June**  **Calculator paper 3 – June** | | **Topics as required based analysis of the papers sat so far during this exam series** |
| **Number** | | **Geometry** | | **Algebra** | | **Statistics** | | **Ratio** | |

**Half Termly Career Focus**

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|  | **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** | **Economist** |
| **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** | **Architect** |
| **Y11** | **Fashion Designer** | **Gardener** | **Carpenter / Joiner** | **Interior designer** | **Exam prep, no specific linked careers** |  |