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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** |  |