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| **Year** | **Autumn 1**  | **Autumn 2**  | **Spring 1**  | **Spring 2**  | **Summer 1**  | **Summer 2** |
| **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 decimals
 | * Angles
* Adding angles
* Drawing a triangle
* Introducing circles
* Perimeter
* Area
* Metric units
 | * Simplifying expressions
* Collecting like terms
* Using a formula
* Writing a formula
* Substitution
* Creating a formula
* Percentages
* Finding percentages
* Fractions, decimals and percentages
 | * Properties of triangles
* Compass turns
* Reading graphs
* Straight line graphs
* Square numbers
* Square roots
 | * Reading pie charts
* Compass turns
* Area of rectangle
* Area of a triangle
* Area of a parallelogram
* Plotting straight line graphs
 | * 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** | * 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
 | * Indices, powers and roots
* Standard form
* Probability
	+ Experimental probability
	+ Probability trees
	+ Sample space
* Ratio and proportion
* Circles
	+ Calculating the area and circumference of circles
* Calculator functions
 | * Algebra basics
	+ Collecting terms
	+ Algebra notation
	+ Solving equations
	+ Algebra brackets
* Area
* Perimeter
* Pie charts
* Expressions and substitutions
* Straight line graphs
* Place value
* Rounding and estimating
 | * Angles
	+ Basic facts
	+ Parallel lines
	+ Triangles
	+ Quadrilaterals
* Algebra
	+ Sequences
	+ Factorising
	+ Nth Term
* Scatter graphs
* Coordinates and plotting in 4 quadrants
* Properties of shapes (2D and 3D)
* Volume and surface area
* Collecting data (tables, charts, and graphs)
* Real life graphs
* Coordinates and midpoints
 | * Angles
	+ Reasoning with angles
* Symmetry
* Equalities/Inequalities
* Transformations
	+ Translation
	+ Reflection
	+ Rotation
	+ Enlargement
* Construction
	+ Line segment
	+ Perpendicular
	+ Angle bisector
	+ Parallel lines
	+ Perpendicular line through given point

**Revision/Exam****Functional Skills** | * Unit conversion
* Scale drawings
* Bearings
* Isometric drawings
* Plans and elevations
* Sets & Venn diagrams
* Sampling and the average (Mode, median and range)

**Revision/Exam****Functional Skills** |
| **Y11** | * Calculator functions
* Factors, multiple and primes
* Introduction to fractions
	+ Adding & subtracting
	+ Multiplying & dividing
* Fractions, decimals and percentages
* Percentages
	+ Percentage change
	+ Reverse percentages
	+ Increase and decrease
* Four operations
* Indices, powers and roots
* Standard form
* Approximations
* Probability
	+ Experimental
	+ Trees
	+ Sample space
 | * Ratio and proportion
* Circles
	+ Calculating the area and circumference of circles
* Algebra basics
	+ Collecting terms
	+ Algebra notation
	+ Solving equations
	+ Algebra brackets
* Area
* Perimeter
* Pie charts
* Expressions and substitutions
* Straight line graphs
* Place value
* Rounding and estimating
* Angles
	+ Basic facts
	+ Parallel lines
	+ Triangles
	+ Quadrilaterals
 | * Algebra
	+ Sequences
	+ Factorising
	+ Nth Term
* Scatter graphs
* Coordinates and plotting in 4 quadrants
* Properties of shapes (2D and 3D)
* Volume and surface area
* Collecting data (tables, charts, and graphs)
* Real life graphs
* Coordinates and midpoints
* Angles
	+ Reasoning with angles
* Symmetry
* Equalities/Inequalities
 | * Transformations
	+ Translation
	+ Reflection
	+ Rotation
	+ Enlargement
* Construction
	+ Line segment
	+ Perpendicular
	+ Angle bisector
	+ Parallel lines
	+ Perpendicular line through given point
* Unit conversion
* Scale drawings
* Bearings
* Isometric drawings
* Plans and elevations
* Sets & Venn diagrams
* Sampling and the average (Mode, median and range)
 | **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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| --- | --- | --- | --- | --- | --- | --- |
|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Blue**  | **Production worker** | **Engineer** | **Architect** | **Bookkeeper** | **Mechanical engineer** | **Economist** |
| **Green** | **Small business owner** | **Quantity Surveyor** | **Baker** | **Joiner** | **Tiler** | **Accountant** |
| **Y10** | **Financial Planner**  | **Video games programmer**  | **Carpenter**  | **Interior designer** | **Builder** | **Architect**  |
| **Y11** | **Fashion Designer**  | **Gardener** | **Graphic designer** | **Painter and decorator** | **Music production**  | **Surveyor** |