Long Term Plan Maths 2023 - 2024 Green

_Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS3 Blue Year	• Temperature • Tests of divisibility • Square numbers • Measuring and drawing angle • Drawing a triangle • Introducing circles • 2D Shapes • Place Value • Ordering whole numbers • Place value and decimals Adding decimals • Functional Maths	• Perimeter • Area • Metric units • 3D shapes • Nets of cubes • Nets of other 3D shapes • Division problems • Written methods of division • Functional Maths	• Simplifying expressions • Substitution • Creating a formula • Percentages • Finding percentages • Fractions, decimals and percentages • Functional Maths	• Calculating angles • Properties of triangles • Angles in a triangle • Compass turns • Reading graphs • Line graphs 1 • Line graphs 2 • Real life graphs • Functional Maths	• Written addition and subtraction 1 • Written addition and subtraction 2 • Reading pie charts • Reading diagrams • Averages – Mode • Averages – median • Comparing data – range and the mean • Functional Maths	• Rotation • Tessellations • Equations 1 • Equations 2 • Solving arithmetic problems • Scale drawings • Functional Maths
KS3 Green Year	• BIDMAS • Factors • Multiples • Prime numbers • LCM and HCF • Rounding and estimating • Significant numbers • Order of operations • Introducing probability • Probability scale 1 • Functional Maths	• 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 • Functional Maths	• Using letters 1 • Using letters 2 • Adding with symbols • Writing fractions • Equivalent fractions • Improper fractions • Fractions of an amount 1 • Fractions of an amount 2 • Functional Maths	• Angles • Adding angles • Measuring angles • Finding angles at a point • Coordinates • Coordinates with negative numbers • Probability scale 2 • Sorting with venn diagrams • Functional Maths	• Mental methods of addition • Mental methods of subtraction • Planning and collecting data • Organising data • Reading lists and tables • Reading and drawing pictograms • Reading and drawing bar charts • Tally charts and frequency tables • Functional Maths	• Lines of symmetry • Reflection • Translations • Operations • Inverse operations • Using letters 3 • Ratio and proportion • Ratio and proportion problems • Functional Maths

Number	Geometry	Algebra	Statistics	Ratio	Number	Functional

Long Term Plan Maths 2023 - 2024 Green

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Y10	• Factors, multiple and primes
	• Properties of shapes (2D and 3D)
	• Place value
	• Fractions, decimals and percentages
	• Sampling and the average (Mode, median and range)
	• Rounding and estimating
	• Functional Maths
		• Four operations and use of a calculator
		• Indices, powers and roots
		• Standard form
		• Approximations
		• Probability
		• Ratio and proportion
		• Circles
		• Functional Maths
			• Algebra brackets
			• Algebra basics
			  - Collecting terms
			  - Algebra notation
			  - Solving equations
			• Area and perimeter
			• Pie charts
			• Expressions and substitutions
			• Straight line graphs
			• Coordinates and midpoints
			• Functional Maths
				• Angles
				• Basic facts
				• In parallel lines
				• In triangles
				• In quadrilaterals
				• Sets & Venn diagrams
				• Algebra – sequences
				• Volume and surface area
				• Functional Maths
					• Angles
					• Reasoning with angles
					• Pythagoras
					• Trigonometry
					• Equalities/Inequalities
					• Construction
					  - Line segment
					  - Perpendicular
					  - Angle bisector
					  - Parallel lines
					  - Perpendicular line through given point
					• Functional Maths
					
					==**Revision/Exam
					Non-calculator paper 1 – May**==
						• Scales and bearing
						• Collecting data (tables, charts, and graphs)
						• Real life graphs
						• Scatter graphs
						• Plans and elevations
						• Transformations
						• Functional Maths
						
						==**Revision/Exam
						Calculator paper 2 – June
						Calculator paper 3 – June**==

Y11	• Factors, multiple and primes
	• Properties of shapes (2D and 3D)
	• Place value
	• Fractions, decimals and percentages
	• Sampling and the average (Mode, median and range)
	• Rounding and estimating
	• Functional Maths
		• Four operations and use of a calculator
		• Indices, powers and roots
		• Standard form
		• Approximations
		• Probability
		• Ratio and proportion
		• Circles
		• Functional Maths
			• Algebra brackets
			• Algebra basics
			  - Collecting terms
			  - Algebra notation
			  - Solving equations
			• Area and perimeter
			• Pie charts
			• Expressions and substitutions
			• Straight line graphs
			• Coordinates and midpoints
			• Functional Maths
				• Angles
				• Basic facts
				• In parallel lines
				• In triangles
				• In quadrilaterals
				• Sets & Venn diagrams
				• Algebra – sequences
				• Volume and surface area
				• Functional Maths
					• Angles
					• Reasoning with angles
					• Pythagoras
					• Trigonometry
					• Equalities/Inequalities
					• Construction
					  - Line segment
					  - Perpendicular
					  - Angle bisector
					  - Parallel lines
					  - Perpendicular line through given point
					• Functional Maths
					
					==**Revision/Exam
					Non-calculator paper 1 – May**==
						• Scales and bearing
						• Collecting data (tables, charts, and graphs)
						• Real life graphs
						• Scatter graphs
						• Plans and elevations
						• Transformations
						• Functional Maths
						
						==**Revision/Exam
						Calculator paper 2 – June
						Calculator paper 3 – June**==

Number	Geometry	Algebra	Statistics	Ratio	Number	Functional Maths

Half Termly Career Focus

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Blue	Insurance Underwriter	Engineer	Architect	Bookkeeper	Mechanical engineer	Economist
Green	Small business owner	Quantity Surveyor	Computer Programmer	Joiner	Plummer	Tax Adviser
Y10	Financial planner	Video games programmer	Carpenter	Interior designer	Builder	Architect
Y11	Fashion designer	Graphic designer	Gardener	Painter and decorator	Music production	Surveyor