Maths Mastery Curriculum – Curriculum Overview 2022-2023

Autumn Term:

Numerical Reasoning			**Additive Reasoning**			**Multiplicative Reasoning**				**Geometric Reasoning**		
Place Value		Fractions (decimals and percentages KS2)	Mental Strategies (+ and -)	Addition Working towards written method	Subtraction – Working towards written method	Mental Strategies (x and ÷)	Mental Strategies (x and ÷)	Multiplication - Working towards written method	Division Working towards written method	Shape and properties	Shape and properties	Positional direction
Statistics and Measures *– Key skills to be taught and then used and applied within these contexts*												
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
N – Counting and recognising numerals to 3	N – Counting and recognising numerals to 3	N – Understanding number 1	N – Understanding number 2	N – Understanding Number 3	N – Shapes (Circle and Triangle)	N – Counting and recognising numerals to 5	N – Counting and recognising numerals to 5	N – Understanding Number 4	N – Understanding Number 5	Height (taller and shorter)	Size (Big and Small)	Shapes – circle, rectangle, triangle and square
R– Identifying numbers/counting	R– Number Value using dots	R– Number value using a range of objects	R – One less/one more	R- Largest/Smaller Numbers	R - Number bonds to 5/10	R - One less/using cubes and dots	R - One more/ adding using cubes and dots	R - Halving/Sharing into equal groups	R - Doubling/Repeated Addition	R - Assessment Week (iPad observation)	R - 2D Shapes identifying and naming properties	R - Money identifying amounts (addition/subtraction)
YEAR 1												
Y1 - Place value (10s and 1s)	Y1 - Ordering numbers up to 100	Y1 - Fractions (halves and quarters)	Y1 -Bridging through 10	Y1 – Adding two digit by one digit	Y1 – Subtracting one digit from two digit.	Y1 - Double across 10	Y1 – Scaling numbers up and down	Y1 – (2,5 and 10 times tables)	Y1 – (Double and halves numbers across 10	Y1 - Identify and draw 2D shapes	Y1 - Identify shapes and faces of pyramids and prisms	Y1 – Quarter, Half and Full turn
YEAR 2												
Y2 - Place value (three-digit numbers)	Y2 - Place value (ordering and comparing) 3 digit numbers)	Y2 - Fractions (equivalence between halves and quarters)	Y2 – Partitioning three digit numbers.	Y2 – Adding 2 digit by 2 digits	Y2 – Subtracting 2 digit by 2 digits.	Y2 – Doubling and Halving	Y2 – Doubling and halving	Y2 – Multiplication of single digit calculations.	Y2 – Division (sharing between 2, 5 and 10	Y2 – Identify regular and irregular shapes	Y2 – Sorting 2D and 3D shapes into a Venn diagram	Y2 – Quarter, three-quarter turns (clockwiseanticlockwise)
YEAR 3												
Y3 - Place value (linking to measurement	Y3 - introducing 100ths.	Y3 – ½, ¼ and 1/8ths.	Y3 – Partitioning to add 3 digit by 3 digit.	Y3 – 3 digit by 3 digit	Y3 – 3 digit by 3 digit.	Y3 – Doubling and halving using known number facts.	Y3 Y3 – Doubling and halving using known	Y3 – Grid Method	Y3 – Dividing by numbers up to 10.	Y3 - Explore nets of 2D shapes	Y3 - Compare, classify and draw shapes according to their properties	Y3 – Describe translation

							number facts					
YEAR 4												
Y4 - Place value to 10,000	Y4 – Place value (capacity	Y4 – Fifths and tenths	Y4 – Partitioning 4 digit by 4 digit	Y4 – 4 digit by 4 digit.	Y4 – 4 digit by 4 digit	Y4 – Doubling and halving, making links between the 2,4 and 8 times tables.	Y4 – Doubling and halving, making links between the 2,4 and 8 times tables.	Y4 – Column Method	Y4 – Short Division	Y4 – To identify and compare angles in 2D shapes.	Y4 – 3D Shape nets.	Y4 – Identifying coordinates
EAR 5												
Y5 - Place value to 1,000,000	Y5 – Place Value (Mass))	Y5 – Link to decimals (10th and 100th)	Y5 – Adding 99	Y5 – Decimal numbers	Y5 – Decimal Numbers	Y5 – Partitioning to multiply.	Y5 – Decimal numbers (known number facts)	Y5 – Column method (decimal numbers)	Y5 – Division (using the inverse	Y5 – 2D shapes (symmetry and angles)	Y5 – Reasoning net patterns.	Y5 – Identifying angles on a point
EAR 6												
Y6 - Place value (millions and thousandths)	Y6 – Negative Numbers	Y6 – Fractions, Decimal, Percentage Equivalence	Y6 – Time Durations	Y6 – Adding Measurements	Y6 – Subtracting Measurements	Y6 – Factors and Multiples	Y6 – Partitioning to halve numbers	Y6 – Long Multiplication	Y6 – Long Division	Y6 – Perimeter and Volume	Y6 – Missing Angles in Quadrilaterals.	Y6 – Drawing Angles using a protractor

Spring Term:

Numerical Reasoning		**Additive Reasoning**			**Multiplicative Reasoning**				**Geometric Reasoning**
Place Value	Fractions (decimals and percentages KS2)	Mental Strategies (+ and -)	Addition -Working towards written method	Subtraction – Working towards written method	Mental Strategies (x and ÷)	Multiplication - Working towards written method	Division -Working towards written method	Shape and properties	Positional direction
Statistics and Measures *– Key skills to be taught and then used and applied within these contexts*									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5
N – Counting and Recognising Numerals to 5	N – Ordering Numbers to 3	N – Number value to 3	N – Ordering Numbers to 5	N – Number value to 5	N – Counting to 10	N – Recognising numerals to 10	N – Recognising value to 5	N – Weight (heavier and lighter) Capacity (full and empty)	N – 2D Shapes

R– Largest/Smaller numbers ordering	R – Number bonds to 10	R– Length/Height (ordering and comparing)	R – Weight (mass) Ordering/Comparing	R – Time/Sequencing Time	R – Taking away subtraction (number signs)	R – Adding Number signs	R – Halving/ sharing into equal groups	R – Doubling/ Repeated Addition	R – 2D shapes identifying/naming properties
YEAR 1									
Y1 - Place value (one more/one less)	Y1 - Fractions (Halves and Quarters of Shape)	Y1 - Doubling (Repeated addition)	Y1 – Partitioning to add	Y1 – Partitioning to subtract	Y1 – Multiply and divide using arrays	Y1 - Scaling up and down (doubling)	Y1 – Division – sharing numbers into equal groups	Y1 – Properties of quadrilaterals	Y1 – Half turn & ¾ turn
YEAR 2									
Y2 - Place value (add/subtract tens & ones)	Y2 - Fractions of amount (1/2, ¼ and ¾)	Y2 - Money	Y2 – Addition (Measurement)	Y2 – Subtraction (Measurement)	Y2 – Communitive law	Y2 – Doubling (Measures & Money)	Y2 – Halving (Measures & Money)	Y2 – Symmetry (2D Shapes)	Y2 – ¼. ½ ¾ turns (link to fractions)
YEAR 3									
Y3 - Place value (Multiply by 10 and 100)	Y3 – Equivalent Fractions	Y3 – Bar Charts	Y3 – Time Durations	Y3 – Subtraction – Missing Numbers (Perimeter/Area)	Y3 – Converting units of time	Y3 – Scaling up and down (Measurement)	Y3 - Inverse with Multiplication	Y3 – Compare, classify and draw 2D shapes	Y3 – Compare turns and angles
YEAR 4									
Y4 – Roman Numerals	Y4 – Improper Fractions & Mixed Numbers	Y4 – Adding 99 (+ 100 -1)	Y4 – Time Durations (Multi-step problems)	Y4 – Subtracting different units of length	Y4 – Common factors and multiples	Y4 – Statistics (Pictograms)	Y4 – Known number facts to divide	Y4 – Symmetry	Y4 – Translation
YEAR 5									
Y5 – Rounding to the nearest 10, 100 and 1,000.	Y5 – Adding and Subtracting Fractions	Y5 – Perimeter of regular and compound shapes	Y5 – Money (Multistep problems)	Y5 – Subtracting Metric Measurements	Y5 – Area and Volume	Y5 – Multiplication (2 decimal places)	Y5 – Division (2 decimal places)	Y5 – Drawing triangles and quadrilaterals to given dimensions	Y5 – Reflection and Translation
YEAR 6									
Y6 - Place value – Metric and Imperial Measurements	Y6 – Simplifying and Comparing Fractions	Y6 – Bar Charts & Line Graphs	Y6 – Adding Decimals	Y6 – Subtracting Decimals	Y6 – Prime, Square and Cube Numbers	Y6 – Multiplication Reasoning	Y6 – Division Reasoning	Y6 – Radius, Diameter and Circumference	Y6 – Full Co-Ordinates (four quadrants)

Summer Term:

Numerical Reasoning	Additive Reasoning	Multiplicative Reasoning	Geometric Reasoning

Place Value	Fractions (decimals and percentages KS2)		Mental Strategies (+ and -)	Addition Working towards written method	Subtraction – Working towards written method	Mental Strategies (x and ÷)	Multiplication	Division	Multiplication and Division	Shape and properties	Shape and properties	Positional direction
Statistics and Measures *– Key skills to be taught and then used and applied within these contexts*												
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
N – Counting to 10	N – Recognising numerals to 10	N - Patterns	N – Recognising values to 5	N – Height (taller and shorter) Size (Big and Small)	N -2D Shapes	N- Counting to 20	N - Patterns	N- Number value to 10	N - Number value to 10	N - Weight (heavier and lighter)	N - Capacity (full and empty)	N - 3D shapes
				Weight (heavier and lighter)								
R – Length/Height (ordering/comparing)	R – Weight/Mass/Capacity (ordering/comparing)	R – Time/Sequencing Time	R – Number Bonds	R - Gaps	R – Partitioning Numbers	R – Subtraction (number signs)	R – Addition (Number Signs)	R – Division (Number signs)	R – Multiplication (Number signs)	R – Assessment Week (iPad observation)	R – 2D/3D Shapes identifying properties	R - Fractions
EAR 1												
Y1 – Partition numbers up to 100	Y1 - Fractions of quantities	Y1 - Fractions of measurements	Y1 – Near Doubles	Y1 – Adding Money	Y1 – Subtracting Money	Y1 - Repeated addition	Y1 – Communitive Law	Y1 – Halving to 10 and across	Y1 – Inverse and word problems	Y1 - Create patterns with shapes	Y1 - Investigate properties of 2D and 3D shapes	Y1 – Describe position and movements
EAR 2												
Y2 – Compare and order numbers to 1,000	Y2 - Equivalent Fractions	Y2 - Fractions of money	Y2 – Adding Time and Money	Y2 – Addition (missing numbers)	Y2 – Column subtraction	Y2 – Using known number facts	Y2 – Repeated addition (number line)	Y2 – Repeated Subtraction (Number line)	Y2 – Division (sharing between 2, 5 and 10	Y2 – Classifying polygons	Y2 – Properties of cones, cylinders, pyramids and prisms	Y2 – Making patterns with shape
EAR 3												
Y3 – Rounding to the nearest 10 and 100.	Y3 – Adding and Subtracting fractions (same denominator)	Y3 – Adding Fractions to equal 1 whole	Y3 – Calculating Perimeter	Y3 – Missing lengths (Perimeter)	Y3 – Subtracting Measurements	Y3 – Doubling and Doubling (x4) (x8)	Y3 – Pictograms (Multiples of 2,4 and 8)	Y3 – Short Division	Y3 – Common factors and multiples	Y3 - Creating 3D shapes for nets	Y3 - Identifying parallel and perpendicular lines	Y3 – Identifying right angles
EAR 4												

Y4 – Counting in multiples of 6,7,9, 25 and 100.	Y4 – Ordering fractions (number line)	Y4 – Fraction and Decimal Equivalence	Y4 – Bridging through 10, 100 and 1,000.	Y4 – Adding Decimals	Y4 – Subtracting Decimals	Y4 – Missing number linked to algebra	Y4 – Pictograms (Multiples of 3,6 and 8)	Y4 – Division as a check for multiplication	Y4 – Multiplying measurements	Y4 – Identifying and classifying triangles and quadrilaterals	Y4 – Symmetry	Y4 – Translation and Reflection
EAR 5												
Y5 – Rounding decimals	Y5 – Adding and Subtracting Mixed Numbers	Y5 – Multiply Fractions	Y5 – Calculating compound shapes	Y5 – Multi-step word problems	Y5 – Multistep word problems	Y5 – Area of shape	Y5 – Long Multiplication	Y5 – Long Division	Y5 – Prime and composite numbers linked to measurement	Y5 – Angles on a point and straight line	Y5 – Missing angles	Y5 – Reflection and translation in the first quadrant
EAR 6												
Y6 - Algebra	Y6 – Multiplying and Dividing Fractions	Y6 – Multiplying Mixed Numbers	Y6 – Mental and written strategies	Y6 – KS2 SATS	Y6 – Estimation	Y6 – Project Based (Planning a Holiday)	Y6 – Project Based (Designing a Bedroom)	Y6 – Project Based (Building a Theme Park)	Y6 – Project Based (Entrepreneurial skills)	Y6 – Project Based (Enterprises)	Y6 – Project Based (Calculating Tax)	Y6 – Project Based

Autumn Term:

2nd Sept – 21st Oct 6 7th Nov – 22nd Dec 7

Spring Term:

5th Jan – Fri 10th 5 20th Feb – 31st March 5

Summer Term:

17th Apr – 26th May 6 5th June - 21st July 7