Mathematics Mastery

Curriculum Map: Year 4

Autumn

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Reasoning with large numbers		**Addition and subtraction**			**Multiplication and division**			**Discrete and continuous data**	
• 4-digit place value. Read, write, represent, order and compare • Find 10, 100 or 1000 more or less • Round numbers to the nearest 10, 100 or 1000		• Select appropriate strategies to add and subtract • Illustrate and explain appropriate addition and subtraction strategies including column method with regrouping			• Distributive property including multiplying three 1-digit numbers • Mental multiplication and division strategies using place value and known and derived facts • Short multiplication and division			• Read, interpret and construct pictograms, bar charts and time graphs • Compare tables, pictograms and bar charts	

Spring

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Securing multiplication facts	**Fractions**				**Time**	**Decimals**			**Area and perimeter**	
• Identify and explore patterns in multiplication tables including 7 and 9	• Explore different interpretations and representations of fractions • Equivalent fractions • Represent fractions greater than one as mixed number and improper fractions • Add and subtract fractions with the same denominator including fractions greater than one				• Analogue to digital, 12-hour and 24-hour • Convert between units of time	• Decimal equivalents to tenths, quarters and halves • Compare and order numbers with same number of decimal places • Multiply and divide by 10 and 100 including decimals			• Perimeter of rectangles and rectilinear shapes • Area of rectangles and rectilinear shapes • Investigate area and perimeter	

Summer

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Solving measures and money problems			**Shape and symmetry**			**Position and direction**	**Reasoning with pattern and sequences**		**3-D shape**
• Convert units of measure • Select appropriate units to measure • Use strategies to investigate problems: trial and improvement, organising using lists and tables, working systematically			• Classify, compare and order angles • Compare and classify 2-D shapes • Identify lines of symmetry			• Describe and plot using coordinates • Describe translations	• Roman numerals up to 100 • Place value of other number systems • Number sequences and patterns		• Use understanding of 3-D shapes • Identify 3-D shapes from 2-D representations

The Dimensions of Depth - Conceptual Understanding, Language and Communication and Mathematical Thinking - underpin all aspects of the curriculum; problem solving is at the heart and is embedded in all units.