Mathematics Curriculum Map

Years 1 - 6

Tudor Court Primary School

Notes and Guidance

Teaching for Mastery

Teachers reinforce an expectation that all pupils are capable of achieving high standards in mathematics.

- The large majority of pupils progress through the curriculum content at the same pace. Differentiation is achieved by emphasising deep knowledge and through individual support and intervention.

- Pre-teach interventions that focus on subject knowledge and growth mind set are used to ensure children have the confidence and understanding to access the learning in class.

- Teaching is underpinned by methodical curriculum design and supported by carefully crafted lessons and resources to foster deep conceptual and procedural knowledge.

- Practice and consolidation play a central role. Carefully designed variation within this builds fluency and understanding of underlying mathematical concepts in tandem.

- Teachers use precise questioning in class to test conceptual and procedural knowledge and assess pupils regularly to identify those requiring intervention so that all pupils keep up.

- Children are articulate in explaining and justifying their thinking when answering questions.

- Children have opportunities and are taught to work both collaboratively and independently.

Concrete – Pictorial – Abstract

We believe that ALL children, when introduced to a new concept, should have the opportunity to build competence by taking this approach.

Concrete – children should have the opportunity to use concrete objects and manipulatives to reveal the structure of mathematics and help them understand what they are doing.

Pictorial – alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.

Abstract – both concrete and pictorial representations should support children's understanding of abstract methods.

Language – use of language to capture key features of the maths, the things that are crucial for pupils to understand and remember. After having developed the ideas, capturing them in a sentence and repeating them together and individually will draw attention to their importance and help embed in the long-term memory.

Year 1: Mathematics Curriculum Map – Areas of Maths

Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Previous Reception experiences and counting within 100 (Unit 1) *(Addition, Subtraction)*				Comparison of quantities and part - whole relationships (Unit 2)) *(Number and Place Value)*		
Autumn 2	Comparison of quantities and part - whole relationships (Unit 2	Numbers 0 to 5 (Unit 3) *(Number place value and Addition and subtraction)*		Recognise, compose, decompose and manipulate 2-D and 3-D shapes (Unit 4) *Geometry*			
Spring 1	Numbers 0 to 10 (Unit 5) *(Number and place value and Addition and subtraction)*		Additive structures (Unit 6) *(Addition and subtraction)*				
Spring 2	Additive structures (Cont) (Unit 6)	Addition and subtraction facts within 10 (Unit 7) *(Number facts)*			Numbers 0 to 20 (Unit 8) *(Number and place vale)*		
Summer 1	Numbers 0 to 20 (Unit 8) *(Number and place value)*		Unitising and coin recognition (Unit 9) *(Number facts)*				
Summer 2	Unitising and coin recognition	Position and direction (Unit 10)		Time (Unit 11)			

Year 2: Mathematics Curriculum Map – Areas of Maths

Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Numbers 10 to 100 (Unit 1) *(Number and Place Value)*				Calculations within 20 (Unit 2) *(Addition and subtraction)*		
Autumn 2	Calculations within 20 (Cont) (Unit 2)	Fluently add and subtract within 10 (Unit 3) *(Number facts)*	Addition and Subtraction of two-digit numbers (1) (Unit 4) *(Addition and subtraction)*		Introduction to multiplication (Unit 5) *(Multiplication and division)*		
Spring 1	Introduction to multiplication (Cont) (Unit 5) *(Multiplication and division)*				Introduction to division structures (Unit 6) *(Multiplication and division)*		
Spring 2	Shape (Unit 7) *(Geometry)*		Addition and Subtraction of two-digit numbers (2) (Unit 8) *(Addition and subtraction)*			Money (Unit 9)	
Summer 1	Money (Unit 9)	Fractions (Unit 10) *(Fractions)*		Time (Unit 11)		Position and Direction (Unit 12)	
Summer 2	Multiplication and division – doubling, halving, quotative and partitive division (Unit 13)			Sense of measure – capacity, volume, mass (Unit 14)			

Year 3: Mathematics Curriculum Map – Areas of Maths

Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Adding and subtractions across 10 (Unit 1) *(Addition and subtraction and Number facts)*		Numbers to 1,000 (Unit 2) *(Addition and subtraction and Number facts)*				
Autumn 2	Numbers to 1,000 (Unit 2) *(Addition and subtraction and Number facts)*						
Spring 1	Right angles (Unit 3) *(Geometry)*		Manipulative the additive relationship and securing mental calculation (Unit 4) *(Addition and subtraction)*				
Spring 2	Column addition (Unit 5) *(Addition and subtraction)*		2, 4, 8 times tables (Unit 6) *(Multiplication and Division and Number facts)*			Column subtraction (Unit 7)	
Summer 1	Unit fractions (Unit 8) *(Fractions)*				Non-unit fractions (Unit 9) *(Fractions)*		
Summer 2	Non-unit fractions (Unit 9) *(Fractions)*		Parallel and perpendicular sides in polygons (Unit 10) *(Fractions)*		Time (Unit 11)		

Year 4: Mathematics Curriculum Map – Areas of Maths

Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Review of column addition and subtraction (Unit 1) *(Number and place value)*			Numbers to 10,000 (Unit 2) *(Number and place value and Number facts)*			
Autumn 2	Numbers to 10,000 (Cont) (Unit 2)		Perimeter (Unit 3) *(Geometry)*		3, 6, 9 times tables (Unit 4) *(Number facts)*		7 times tables and patterns (Unit 5) *(Number facts)*
Spring 1	Understanding and manipulating multiplicative relationships (Unit 6) *(Multiplication and division and Number facts)*			Division with remainders (Unit 12) *(Number facts)*		Coordinates (Unit 7) *(Geometry)*	
Spring 2	Coordinates (Unit 7) *(Geometry)*	Introduction to Short Multiplication and short division (Unit 6b) *(Multiplication and division and Number facts)*					
Summer 1	Review of fractions (Unit 8) *(Fractions)*		Fractions greater than 1 (Unit 9) *(Fractions)*				
Summer 2	Fractions greater than 1 (Unit 9) *(Fractions)*	Symmetry in 2D shapes (Unit 10) *(Geometry)*		Time (Unit 11)			

Year 5: Mathematics Curriculum Map – Areas of Maths

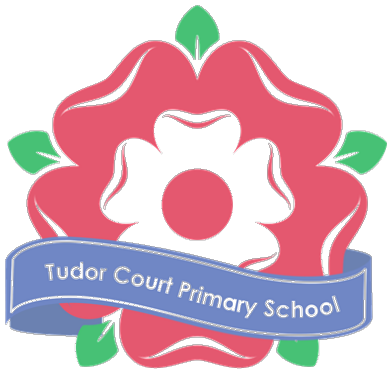
Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Decimal Fractions (Unit 1) *(Number and place value and Number facts)*					Money (Unit 2)	
Autumn 2	Money (Cont) (Unit 2)	Negative Numbers (Unit 3)		Short multiplication and division (Unit 4) *(Multiplication and division and Number facts)*			
Spring 1	Short multiplication and division (Cont) (Unit 4) *(Multiplication and division and Number facts)*		Area and scaling (Unit 5) *(Geometry)*				
Spring 2	Calculating with decimal fractions (Unit 6) *(Multiplication and division)*			Factors, multiples and primes (Unit 7) *(Multiplication and decimals)*			
Summer 1	Fractions (Unit 8) *(Number and place value and fractions)*						
Summer 2	Fractions (Cont) (Unit 8)	Converting units (Unit 9) *(Number and place value)*		Angles and transformations (Unit 10) *(Geometry)*			

Year 6: Mathematics Curriculum Map – Areas of Maths

Number and place value	Number Facts	Addition and Subtraction	Multiplication and Division	Fractions	Geometry	Other

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Calculate using knowledge of structures (1) (Unit 1) *(Addition, Subtraction, Multiplication and Division)*				Multiples of 1,000 (Unit 2)		
Autumn 2	Numbers up to 10,000,000 (Unit 3) *(Number and Place Value)*				Draw, Compose and Decompose Shapes (Unit 4) *(Geometry)*		Multiplication and Division (Unit 5)
Spring 1	Multiplication and Division (Unit 5) *(Multiplication and Division)*			Area, Perimeter, Position and Direction (Unit 6)			
Spring 2	Fractions and Percentages (Unit 7) *(Fractions)*						
Summer 1	Statistics (Unit 8)	Ration and Proportion (unit 9)		KS2 Tests	Calculating using Knowledge of Structures (2) (Unit 10)	Solving Problems with Two Unknowns (Unit 11)	
Summer 2	Solving Problems with Two Unknowns (Unit 11)	Order of Operations (Unit 12)		Mean Average (Unit 13)	Transition		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