Maths Curriculum

Langford, Wilberforce & Fulham

Primary Schools

Langford Primary
The best in everyone™
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Wilberforce Primary
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Maths Curriculum

- Our structured coherent curriculum develops pupils into mathematical thinkers.
- Aligned to our principles of Effective Learning.
- Aligned to White Rose Maths Curriculum and contextualised for each class.
- White Rose Maths aligns with the National Curriculum and EYFS and covers all statutory requirements. It is an ambitious, connected curriculum accessible to all.
- Our curriculum clearly sequences declarative knowledge that pupils should know by the end of each of year.
- Pupils will be fluent in the fundamentals of mathematics, to be able to reason and to solve problems.

Rationale

- WRM curriculum and Maths Principles are used to support teachers to become strong teachers of mathematics.
- Curriculum has clear sequences of learning in 'blocks' which break down into smaller 'steps'.

Nursery

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Baseline			• To match and sort • To compare amounts • To compare size • Pattern – everyday patterns and repeating pattern.			• To explore, recognise and compare amounts 1, 2 and 3, 4 and 5				• To understand positional language	• To explore 2D and 3D shapes
Spring	• Develop cardinality/experimenting with symbols and marks. • Subitising • Rote counting to 10.		• Compare capacity. • Compare length.		• To name and describe 2D shapes with mathematical. • Talk and explore 3D shapes.		• Representing numbers and amounts 1 – 5. • Rote counting to 10. • Subitising		• Solving real life problems up to 5.	• Comparing weight.	• Positional language • Routes	
Summer	• Link numeral and amounts to 5 • Reciting past 5 • Solve real life problems up to 5.			• 2D and 3D shapes • To create repeating patterns (and correct errors). • Combine shapes to make a new one.			• Forming numbers 1-5 (spend two days on each numeral)		• Sequencing events/day and night ordering • Discuss routes and locations • 2D and 3D shapes • Positional language			

Reception

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Getting to know you (Baseline)			Just like me! • Match • Sort • Compare amounts • Compare size, mass and capacity • Make simple patterns			It's me 1 2 3 • Representing 1 2 3 • Comparing 1 2 3 • Composition 1 2 3 • Circles and triangles • Spatial awareness			Light and Dark • Four • Five • One more one less • Shapes with four sides • Night and Day		
Spring	Alive in five! • Introducing zero • Comparing numbers to 5 • Comparing mass • Comparing capacity			Growing 6 7 and 8 • 6, 7 and 8 • Making pairs • Combining two groups • Length and height • Time			Building 9 and 10 • 9 and 10 • Comparing numbers to 10 • Bonds to 10 • 3D shape • Pattern (2)			Consolidation		
Summer	To 20 and Beyond • Building numbers beyond 10 • Counting patterns beyond 10 • Spatial reasoning			First, then, now • Adding more • Taking away • Spatial reasoning			Find my pattern • Doubling • Sharing and grouping • Evens and Odds			On the move • Deepening understanding • Patterns and relationships • Spatial reasoning		

Year 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value (Within 10)					Number Addition and subtraction (Within 10)					Geometry Shape	Consolidation
Spring	Number Place value (Within 20)			Number Addition and subtraction (Within 20)			Number Place value (within 50)		Measurement Length and height		Measurement Mass and volume	
Summer	Number Multiplication and division			Number Fractions		Geometry Position and direction	Number Place value (within 100)		Measurement Money	Measurement Time		Consolidation

Year 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value				Number Addition and subtraction					Geometry Shape		
Spring	Measurement Money		Number Multiplication and division					Measurement Length and height		Measurement Mass, capacity and temperature		
Summer	Statistics		Number Fractions			Geometry Position and direction		Problem solving		Measurement Time		

Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value			Number Addition and subtraction					Number Multiplication and division			
Spring	Number Multiplication and division			Measure Length and perimeter			Number Fractions			Measure Mass and capacity		
Summer	Number Fractions		Measurement Money		Measurement Time			Geometry Shape		Statistics		Consolid ation

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value				Number Addition and subtraction			Measurement Area	Number Multiplication and division			Consolidation
Spring	Number Multiplication and division			Measure Length and perimeter		Number Fractions				Number Decimals		
Summer	Number Decimals		Measurement Money		Measurement Time		Consolidation	Geometry Shape		Statistics	Geometry Position and direction	

Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number** Place value			**Number** Addition and subtraction		**Number** Multiplication and division			**Number** Fractions A			
Spring	**Number** Multiplication and division			**Number** Fractions B		**Number** Decimals and percentages			**Measurement** Perimeter and area		**Statistics**	
Summer	**Geometry** Shape			**Geometry** Positions and direction		**Number** Decimals			**Number** Negative numbers	**Measurement** Converting units		**Measurement** Volume

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number** Addition Subtraction		**Number** Place value- decimals Angles Subtraction Multiplication Division Inverse					**Number** Long division		**Number** Percentages, decimals, fractions		
Spring	**Measurement** converting units		**Measurement** time		**Number** Algebra Ratio		**Number** Ratio		**Geometry** Shape Area/perimeter		**Statistics**	
Summer	**Revision** Geometry Shape			**Geometry** Positions and directions	**Themed projects, consolidation and problem solving**							

Beyond KS2

The national curriculum for mathematics in KS3 continues to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.
- Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programme of study for key stage 3 is organised into apparently distinct domains, but pupils should build on key stage 2 and connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge in science, geography, computing and other subjects.

Mathematics programmes of study: key stage 3