Shotley Bridge Primary School

Maths Yearly Overview (small steps)

Number Facts:

Knowledge of number facts is highlighted in each year group from Year 1 to Year 6. Rapid recall of number facts is the foundation for virtually every other aspect of mathematics, e.g., mental / written calculations, fractions, decimals, percentages etc. "We need to get number facts 'right' if we are going to be successful in raising standards in mathematics."

Teaching of Time:

At Shotley Bridge Primary School we believe that time should not and can not be taught as a discrete 2 week block per say. All teachers will take time throughout the day or week to explore the clock and reinforce the telling of time and this will continue throughout the whole year. Time will also be covered as block unit also.

Teaching of Times Tables:

Our approach to teaching times tables aims to combine rote teaching of fluency facts, to develop rapid recall, with strategies to help develop a conceptual understanding of multiplication facts. Times tables are taught in the following order:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count in 2, 5, 10	Times tables 2, 5, 10	Times tables 5, 10, 2, 4, 8	Times tables 3, 6, 9, 7, and all	Times tables 12 x 12	Times tables 12 X 12 Square, cubed and prime numbers.

At Shotley Bridge Primary School, we carry out a 'Launch' lesson for all new times tables, two lessons to are used within a space of two weeks to look at patterns, build it, solve it, investigate it etc. The children are given time to work through a series of activities and they are then given the opportunity to complete a quiz based on the tables they are being currently taught.

Early Years– to follow Mastering Number and supplement other mathematical areas with White Rose (shape , measure etc)

Mastering Number

Reception Overview

Term 1	Term 2	Term 3
Pupils will build on previous experiences of number from their home and nursery environments, and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects and use the language of comparison.	Pupils will continue to develop their subitising and counting skills and explore the composition of numbers within and beyond 5. They will begin to identify when two sets are equal or unequal and connect two equal groups to doubles. They will begin to connect quantities to numerals.	Pupils will consolidate their counting skills, counting to larger numbers and developing a wider range of counting strategies. They will secure knowledge of number facts through varied practice.
Pupils will:	**Pupils will:**	**Pupils will:**
- identify when a set can be subitised and when counting is needed - subitise different arrangements, both unstructured and structured, including using the Hungarian number frame - make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills - spot smaller numbers 'hiding' inside larger numbers	- continue to develop their subitising skills for numbers within and beyond 5, and increasingly connect quantities to numerals - begin to identify missing parts for numbers within 5 - explore the structure of the numbers 6 and 7 as '5 and a bit' and connect this to finger patterns and the Hungarian number frame - focus on equal and unequal groups when comparing numbers	- continue to develop their counting skills, counting larger sets as well as counting actions and sounds - explore a range of representations of numbers, including the 10-frame, and see how doubles can be arranged in a 10-frame - compare quantities and numbers, including sets of objects which have different attributes - continue to develop a sense of magnitude, e.g. knowing that 8 is quite a lot more than 2, but 4 is only a little bit more than 2

Early Years– Mastering Number Maths Yearly Overview

- connect quantities and numbers to finger patterns and explore different ways of representing numbers on their fingers

- hear and join in with the counting sequence, and connect this to the 'staircase' pattern of the counting numbers, seeing that each number is made of one more than the previous number

- develop counting skills and knowledge, including: that the last number in the count tells us 'how many' (cardinality); to be accurate in counting, each thing must be counted once and once only and in any order; the need for 1:1 correspondence; understanding that anything can be counted, including actions and sounds

- compare sets of objects by matching

- begin to develop the language of 'whole' when talking about objects which have parts

- understand that two equal groups can be called a 'double' and connect this to finger patterns

- sort odd and even numbers according to their 'shape'

- continue to develop their understanding of the counting sequence and link cardinality and ordinality through the 'staircase' pattern

- order numbers and play track games

- join in with verbal counts beyond 20, hearing the repeated pattern within the counting numbers

- begin to generalise about 'one more than' and 'one less than' numbers within 10

- continue to identify when sets can be subitised and when counting is necessary

- develop conceptual subitising skills including when using a rekenrek

Early Years– White Rose Maths Yearly Overview (small steps)

	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 term

Getting to know you
(Take this time to play and get to know the children!)

Contains overviews and frequently asked questions

VIEW

Just like me!
Match and sort
Compare amounts
Compare size, mass & capacity
Exploring pattern

VIEW

It's me 1, 2, 3!
Representing 1, 2 & 3
Comparing 1, 2 & 3
Composition of 1, 2 & 3
Circles and triangles
Positional language

VIEW

Light & dark
Representing numbers to 5
One more or less
Shapes with 4 sides
Time

VIEW

Spring term

Alive in 5!
Introducing zero
Comparing numbers to 5
Composition of 4 & 5
Compare mass (2)
Compare capacity (2)

VIEW

Growing 6, 7, 8
6, 7 & 8
Combining two amounts
Making pairs
Length & height
Time (2)

VIEW

Building 9 & 10
Counting to 9 & 10
Comparing numbers to 10
Bonds to 10
3-D shapes
Spatial awareness
Patterns

VIEW

Consolidation

Summer term

To 20 and beyond
Build numbers beyond 10
Count patterns beyond 10
Spatial reasoning 1
Match, rotate, manipulate

VIEW

First, then, now
Adding more
Taking away
Spatial reasoning 2
Compose and decompose

VIEW

Find my pattern
Doubling
Sharing & grouping
Even & odd
Spatial reasoning 3
Visualise and build

VIEW

On the move
Deepening understanding
Patterns & relationships
Spatial mapping (4)
Mapping

VIEW

Year 1– White Rose Maths Yearly Overview

	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 term	Number **Place value** (within 10)					Number **Addition and subtraction** (within 10)				VIEW	Geometry **Shape** VIEW	Consolidation
					VIEW							
Spring term	Number **Place value** (within 20)			VIEW	Number **Addition and subtraction** (within 20)		VIEW	Number **Place value** (within 50) VIEW	Measurement **Length and height** VIEW	Measurement **Mass and volume** VIEW		
Summer term	Number **Multiplication and division**		VIEW	Number **Fractions**	VIEW	Geometry **Position and direction** VIEW	Number **Place value** (within 100) VIEW	Measurement **Money** VIEW	Measurement **Time** VIEW		Consolidation	

Year 2– White Rose Maths Yearly Overview (small steps)

	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 term	Number **Place value** VIEW				Number **Addition and subtraction** VIEW					Geometry **Shape** VIEW		
Spring term	Measurement **Money** VIEW		Number **Multiplication and division** VIEW					Measurement **Length and height** VIEW		Measurement **Mass, capacity and temperature** VIEW		
Summer term	Number **Fractions** VIEW			Measurement **Time** VIEW			**Statistics** VIEW		Geometry **Position and direction** VIEW		Consolidation	

Year 3– White Rose Maths Yearly Overview (small steps)

	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 term	Number **Place value** VIEW			Number **Addition and subtraction** VIEW					Number **Multiplication and division A** VIEW			
Spring term	Number **Multiplication and division B** VIEW			Measurement **Length and perimeter** VIEW			Number **Fractions A** VIEW			Measurement **Mass and capacity** VIEW		
Summer term	Number **Fractions B** VIEW			Measurement **Money** VIEW		Measurement **Time** VIEW			Geometry **Shape** VIEW		**Statistics** VIEW	Consolidation

Year 4– White Rose Maths Yearly Overview (small steps)

	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 term	Number — Place value				Number — Addition and subtraction			Measurement — Area	Number — Multiplication and division A			Consolidation
Spring term	Number — Multiplication and division B		Measurement — Length and perimeter		Number — Fractions				Number — Decimals A			
Summer term	Number — Decimals B		Measurement — Money		Measurement — Time		Consolidation		Geometry — Shape		Statistics	Geometry — Position and direction

Year 5– White Rose Maths Yearly Overview (small steps)

	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 term	Number — **Place value** VIEW			Number — **Addition and subtraction** VIEW		Number — **Multiplication and division A** VIEW			Number — **Fractions A** VIEW			
Spring term	Number — **Multiplication and division B** VIEW			Number — **Fractions B** VIEW		Number — **Decimals and percentages** VIEW			Measurement — **Perimeter and area** VIEW		**Statistics** VIEW	
Summer term	Geometry — **Shape** VIEW			Geometry — **Position and direction** VIEW		Number — **Decimals** VIEW			Number — **Negative numbers** VIEW	Measurement — **Converting units** VIEW		Measurement — **Volume** VIEW

Year 6 – White Rose Maths Yearly Overview (small steps)

	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 term	Number **Place value** VIEW		Number **Addition, subtraction, multiplication and division** VIEW					Number **Fractions A** VIEW		Number **Fractions B** VIEW		Measurement Converting units VIEW
Spring term	Number **Ratio** VIEW		Number **Algebra** VIEW		Number **Decimals** VIEW		Number **Fractions decimals and percentages** VIEW		Measurement **Area, perimeter and volume** VIEW		**Statistics** VIEW	
Summer term	Geometry **Shape** VIEW		Geometry Position and direction VIEW	Themed projects, consolidation and problem solving								