Grayshott Primary Maths Curriculum 2024/25

Intent Statement

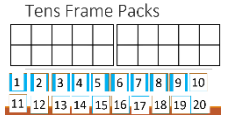
Why do we teach this? Why do we teach it in the way we do?

At Grayshott, we believe in the teaching of a maths curriculum that fosters a love and joy of the subject. We believe in delivering a maths curriculum that builds solid mathematical foundations for our children which they can utilise effectively as lifelong learners. We want our children to have a deep and secure understanding of mathematical concepts, understanding the value of learning from mistakes and misconceptions, whilst also being able to reason articulately about their thinking. Furthermore, we want our children to have a positive and wide perception of maths, understanding that it is not simply about recalling answers quickly, but understanding how problems can be solved in a number of different ways.

By the time they leave school at the end of year 6, we want our children to:

- Be fluent in the mathematical facts including times tables so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- Be able to solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios.
- Reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.
- Have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics.

In year R, children are introduced to a tens frame to support their recognition of number and their understanding of number bonds to 10.



In order to support the recall of mathematical facts, we use **Doodle Maths** with year 1 and year 2.

In the Spring Term of year 2, children are given a **Times Table Rockstars** account to start them on their journey towards learning their times table facts. They are then able to continually practise their times tables using this platform right through to the end of year 6.

Grayshott Primary School - Autumn Term Overview for the teaching of Mathematics – 2024/25

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8		Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Year R	Getting to know you!			Just like me! (Match, sort and compare amounts)					Half Term	It's me 1, 2, 3 (Representing, comparing and composing numbers 1, 2 and 3)		Light and Dark (Representing numbers to 5, finding one more and one less)			Consolidation
Year 1	**Number and Place Value (within 10)**					**Addition and Subtraction (within 10)**		**Review and Retrieval**	**Half Term**	**Addition and Subtraction (within 10)**		**Review and Retrieval**	**Geometry (Shape)**	**End of Autumn Term Assessment**	
	Discreet teaching: **Number formation and number bonds to 10.**														
Year 2	**Number and Place Value**		**Assessment**	Addition and Subtraction				**Review and Retrieval**	**Half Term**	**Addition and Subtraction**		**Review and Retrieval**	**Geometry (Shape)**	**End of Autumn Term Assessment**	
	Discreet teaching: **Measurement: Utilise opportunities to tell time, identify days of the week, months of the year, practise calculations involving number facts to 20.**														
Year 3	**Number and Place Value**			**Addition Subtraction**				**Review and Retrieval**	**Half Term**	**Addition and Subtraction**	**Review and Retrieval**	**Multiplication and Division**		**End of Autumn Term Assessment**	**Review and Retrieval**
	Discreet teaching: **2, 5 and 10x tables and 2D shapes and their properties**														
Year 4	**Number and Place Value**			**Addition Subtraction**				**Review and Retrieval**	**Half Term**	**Addition Subtraction**	**Measurement (area)**	**Review and Retrieval**	**Multiplication and Division**	**End of Autumn Term Assessment**	**Review and Retrieval**
	Discreet teaching: **2, 3, 4, 5, 8 and 10x tables and telling the time**														
Year 5	**Number and Place Value**			**Addition and Subtraction**		**Multiplication and Division**		**Review and Retrieval**	**Half Term**	**Multiplication and Division**	**Fractions**			**End of Autumn Term Assessment**	**Review and Retrieval**
	Discreet teaching: **Roman Numerals/Coordinates/Conversions of units of measurement**														
Year 6	**Number and Place Value**			**Addition/Subtraction/Multiplication/ Division including one and two-step problems**				**Review and Retrieval** **SATs Assessment**	**Half Term**	**Addition/Subtraction/Multiplication/ Division**	**Fractions**		**Measurement/Converting units**	**End of Autumn Term Assessment**	**Review and Retrieval**
	Discreet teaching: **Roman Numerals/Angles/Properties of 2D and 3D shapes**														

*** Review and Retrieval - these are weeks or sequences of lessons where previously taught domains of the maths curriculum are revisited, practised and further consolidated.**

Grayshott Primary School - Spring Term Overview for the teaching of Mathematics 2024/25

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Year R	Alive in 5! (Composition of 4 and 5)			Growing 6, 7 and 8 (Making pairs)			Half Term	Building 9 and 10 (Comparing numbers to 10 and number bonds to 10)			Consolidation (Revisit numbers 1- 10 including number bonds)		
Year 1	**Number and Place Value (within 20)**			**Addition and Subtraction (within 20)**		**Review and Retrieval**	**Half Term**	**Number and Place Value (within 50)**		**Length and Height**	**Review and Retrieval**	**Assessment Week**	**Mass and Volume**
	Discreet Teaching: Number formation and number bonds to 10.												
Year 2	**Money**			**Multiplication and Division**		**Review and Retrieval**	**Half Term**	**Multiplication and Division**		**Length and Height**	**Review and Retrieval**	**Assessment Week**	**Mass, Capacity and Temperature**
	Discreet Teaching: Identify and describe the properties of 2D and 3D shapes, identify 2D shapes on the surface of 3 D shapes. Counting in twos, fives, tens and threes												
Year 3	**Addition and Subtraction Review**	Multiplication and Division			Length and Perimeter	**Review and Retrieval**	**Half Term**	Fractions		Multiplication and Division	**Review and Retrieval**	Assessment Week	Mass and Capacity
	Discreet Teaching: 3x and 4x tables, addition and subtraction- 2 digits subtract 2 digits- crossing 10s barrier, properties of 2D shapes												
Year 4	**Multiplication and Division**			**Length and Perimeter**		**Review and Retrieval**	**Half Term**	**Fractions**			**Consolidate and review**	**Assessment Week**	**Decimals**
	Discreet Teaching: 7x, 9x, 12x tables, multiplication and division (formal and mental methods)												
Year 5	**Multiplication and Division**			**Fractions**		**Review and Retrieval**	**Half Term**	**Decimals and Percentages**		**Perimeter and Area**	**Review and Retrieval**	**Assessment Week**	**Statistics**
	Discreet Teaching: Shading fractions of a shape, Division (3 digits divide 1 digit), estimating on a number line												
Year 6	**Ratio**	**Calculation (Four operations and problems)**	**Algebra**	**Decimals**		**Review and Retrieval**	**Half Term**	**Assessment Week Practice SATs**	**Fractions, Decimals and Percentages**		**Review and Retrieval**	**Area, Perimeter and Volume**	**Statistics**
	Discreet Teaching: Multiplying and dividing 10, 100 and 1000, Simplifying fractions, adding/subtracting and multiplying fractions												

***Consolidation/Review- these are weeks or sequences of lessons where previously taught domains of the maths curriculum are revisited, practised and further consolidated.**

Grayshott Primary School - Summer Term Overview for the teaching of Mathematics- **2024/25**

	Week 1	Week 2	Week 3	Week 4	Week 5		Week 6	Week 8	Week 9	Week 10	Week 11	Week 12
Year R	**To 20 and beyond (Building numbers and counting patterns beyond 10)**			**First, Then, Now (Adding more, taking away)**			**Find my pattern (Doubling, sharing and grouping, even and odd)**			**On the move (deepening understanding of patterns and relationships)**		
Year 1	**Multiplication and Division**			**Fractions**	**Geometry (Position and Direction)**		**Number and Place Value (within 100)**	**Measurement (Money)**		**Measurement (Time)**	**Assessment Week**	**Consolidation**
Year 2	**Fractions**			**Time**			**Statistics**	**Position and direction**			**Assessment Week**	**Consolidation**
Year 3	**Fractions**			**Money**	**Time**		**Time**	**Shape**		**Statistics**	**Assessment Week**	**Consolidation**
Year 4	**Decimals**			**Money**	**Time**		**Consolidation**	**Shape**		**Statistics**	**Assessment Week**	**Position and direction**
Year 5	**Shape**			**Position and direction**	**Decimals**		**Decimals**	**Number (Negative Numbers)**		**Measurement (Converting Units)**	**Assessment Week**	**Measurement (Volume)**
Year 6	**SATs Revision (topics to be decided based on Practice SATs in February 2025)**			**SATs Week**	**Shape**		**Position and direction**	**Review/consolidation and application of skills across investigations and problems.**				

Half Term

* **Review and Retrieval - these are weeks or sequences of lessons where previously taught domains of the maths curriculum are revisited, practised and further consolidated.**

Number fact progression

By the end of year 2, children must know the following addition facts and their associated subtraction facts.

+	0	1	2	3	4	5	6	7	8	9	10
0	0 + 0	0 + 1	0 + 2	0 + 3	0 + 4	0 + 5	0 + 6	0 + 7	0 + 8	0 + 9	0 + 10
1	1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9	1 + 10
2	2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	2 + 9	2 + 10
3	3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7	3 + 8	3 + 9	3 + 10
4	4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6	4 + 7	4 + 8	4 + 9	4 + 10
5	5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5	5 + 6	5 + 7	5 + 8	5 + 9	5 + 10
6	6 + 0	6 + 1	6 + 2	6 + 3	6 + 4	6 + 5	6 + 6	6 + 7	6 + 8	6 + 9	6 + 10
7	7 + 0	7 + 1	7 + 2	7 + 3	7 + 4	7 + 5	7 + 6	7 + 7	7 + 8	7 + 9	7 + 10
8	8 + 0	8 + 1	8 + 2	8 + 3	8 + 4	8 + 5	8 + 6	8 + 7	8 + 8	8 + 9	8 + 10
9	9 + 0	9 + 1	9 + 2	9 + 3	9 + 4	9 + 5	9 + 6	9 + 7	9 + 8	9 + 9	9 + 10
10	10 + 0	10 + 1	10 + 2	10 + 3	10 + 4	10 + 5	10 + 6	10 + 7	10 + 8	10 + 9	10 + 10

Times table progression

Children are expected to know all their multiplication and division facts by the end of year 4. The below chart outlines the progression of learning those facts from years 2 to 4. Children in year 5 and 6 will continue to practise their times table facts and improve their speed of recall.

x	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3		9	12	15	18	21	24	27	30	33	36
4			16	20	24	28	32	36	40	44	48
5				25	30	35	40	45	50	55	60
6					36	42	48	54	60	66	72
7						49	56	63	70	77	84
8							64	72	80	88	96
9								81	90	99	108
10									100	110	120
11										121	132
12											144

28 multiplication/division facts to learn in year 2 (x2, x5, x10)

+21 multiplication/division facts to learn in year 3 (x3, x4, x8)

+16 multiplication/division facts to learn in year 4 (x6, x7, x9, x11,x12)