

Maths curriculum at DMP 2025/2026



What is White Rose Maths?

- White Rose Maths is a structured curriculum used in many UK primary schools.
- Builds maths learning step-by-step
- Focuses on mastery, not rushing
- Encourages deep understanding through models and practical resources life.

Early Years (Reception)

Key focus areas:

- Counting and number recognition to 10
- Comparing quantities (more/less)
- Simple addition and subtraction through play
- Shape, pattern, and spatial awareness

Key concepts:

- Number sense
- One-to-one correspondence

Year 1

Key focus areas:

- Numbers to 20 (then 50)
- Addition and subtraction
- Place value (tens and ones)
- 2D and 3D shapes

Key concepts:

- Understanding numbers represent quantities
- Part-whole relationships

Year 1

Key focus areas:

- Numbers to 20 (then 50)
- Addition and subtraction
- Place value (tens and ones)
- 2D and 3D shapes

Key concepts:

- Understanding numbers represent quantities
- Part–whole relationships

Year 2

Key focus areas:

- Numbers to 100
- Addition, subtraction, early multiplication and division
- Money and time

Key concepts:

- Number bonds
- Equal groups
- Commutativity

Year 3

Key focus areas:

- Numbers to 1,000
- Formal multiplication and division
- Fractions

Key concepts:

- Place value across 3 digits
- Understanding fractions as numbers

Year 4

Key focus areas:

- Numbers to 10,000
- Times tables (up to 12×12)
- Fractions and decimals

Key concepts:

- Multiplicative relationships
- Equivalence

Arithmetic vs reasoning

Arithmetic:

- Calculating accurately
- Applying known methods
- Focus on fluency

$$48 + 27 =$$

Reasoning:

- Explaining thinking
- Justifying answers
- Spotting patterns and relationships

Reasoning helps children to:

- Deepen understanding
- Apply maths to unfamiliar problems
- Explain and defend their thinking

This leads to confident, independent mathematicians.

Sarah has 3 apples. She buys 2 more and then give 1 apple to her friend. How many apples does sarah have now?

Calculation Policy

White Rose focuses on developing secure understanding before written methods.

Children learn to:

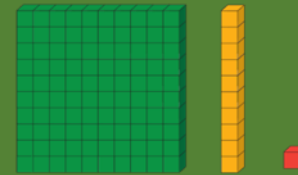
- Use mental strategies first
- Represent calculations using objects and drawings
- Progress to formal written methods when ready

This ensures children understand **why** methods work, not just how.

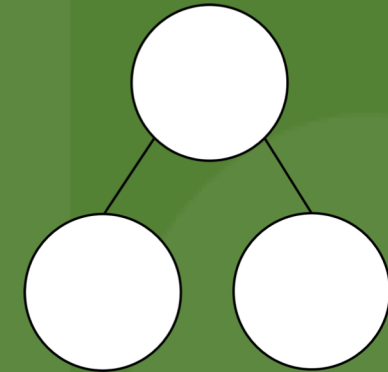
Addition and Subtraction Progression

Children move through:

- Counting and combining using objects
- Number lines and part-whole models
- Column methods in later years
- Key emphasis:
 - - Place value
 - - Exchange and regrouping
 - - Checking answers using inverse operations



100	
40	60

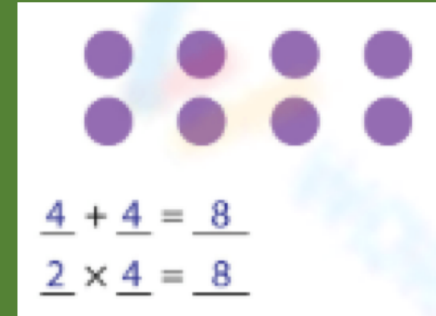


TTh	Th	H	T	O	Tth	Hth

Multiplication and Division Progression

Children develop understanding through:

- Equal groups and sharing
- Arrays and repeated addition
- Grid method and formal written methods
- Understanding links multiplication and division as inverse operations.



- Dora uses place value counters alongside the written multiplication to work out 34×2

Tens	Ones
10 10 10	1 1 1 1
10 10 10	1 1 1 1

		T	O	
		3	4	
	x		2	
			8	
		6	0	
		6	8	

($4 \times 2 = 8$)
($30 \times 2 = 60$)


Use Dora's method to work out the multiplications.





$$23 \times 3$$

$$32 \times 3$$

$$42 \times 2$$

How Parents Can Support at Home



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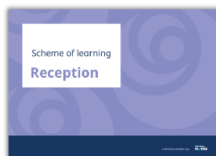
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The schemes of learning

A scheme of learning is a clear, time-linked plan for learning.



Reception scheme of learning

View our reception scheme of learning here.



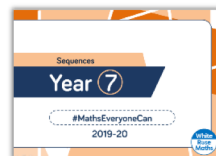
Primary maths schemes of learning

View years 1 to 6 schemes of learning here.



Primary science schemes of learning

View years 1 to 6 schemes of learning here.



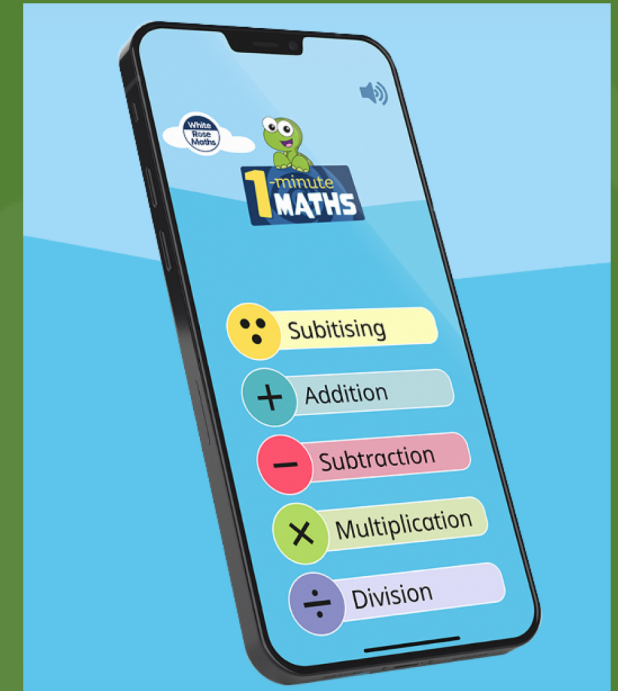
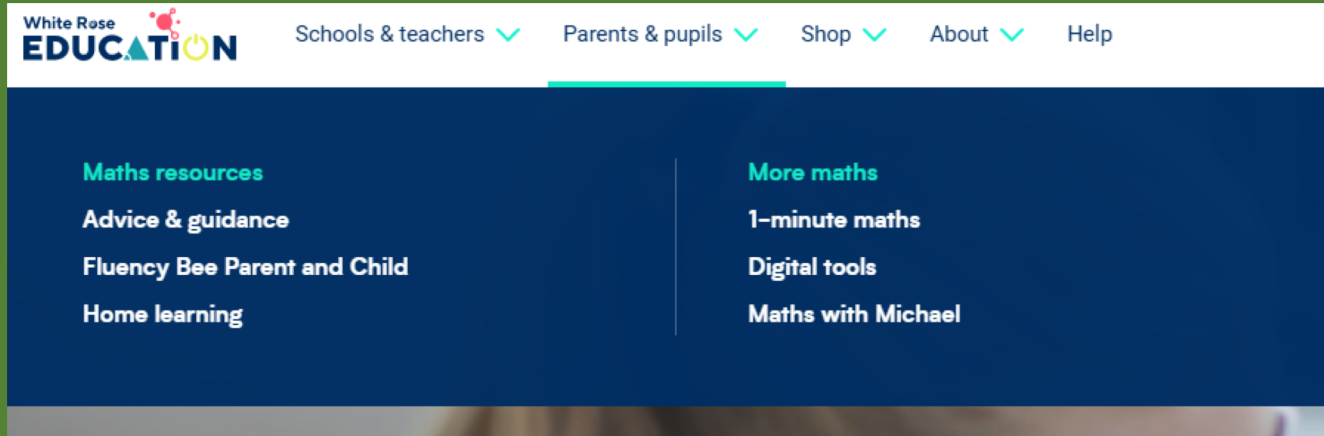
Secondary schemes of learning

View years 7 to 11 schemes of learning here.

Hard work | Independence | Enjoyment

	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) VIEW					Number Addition and subtraction (within 10) VIEW					Geometry Shape VIEW	Consolidation
Spring	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	Number Multiplication and division		Number Fractions		Geometry Position and direction	Number Place value (within 100)	Measurement Money	Measurement Time		Consolidation		

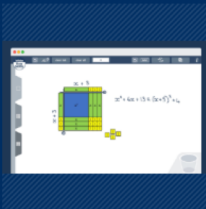
How Parents Can Support at Home



Free digital tools



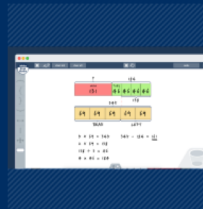
Place value chart



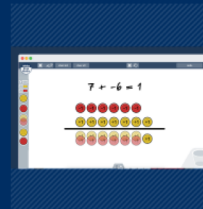
Algebra tiles



Rekenrek

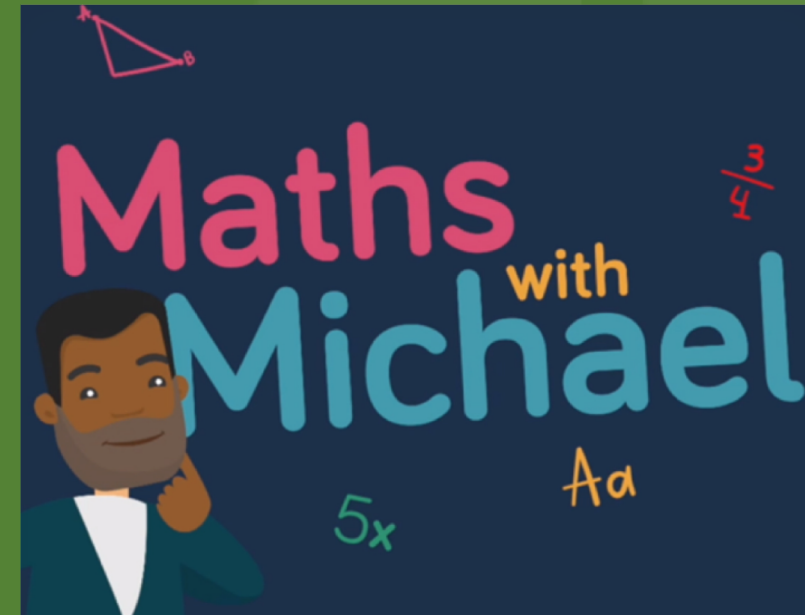


Bar model



Double-sided counters

Hard work | Independence | Enjoyment



Year Group Maths at Home – Practical Ideas

- EYFS: Count toys, sort socks, spot shapes on walks, share snacks equally.
- Year 1: Count in 2s/5s, add small numbers with objects, make numbers to 20.
- Year 2: Practice number bonds, count money, tell the time to 5 minutes.
- Year 3: Times tables games, fraction pizzas, measure ingredients.
- Year 4: Rapid recall of tables, decimals with money, area of rooms.
- Year 5: Percentages in shopping, long multiplication practice, scaling recipes.
- Year 6: SATs-style word problems, algebra puzzles, reasoning challenges.

Times tables rockstars

What it is:

- Online programme to practise multiplication facts

Why it helps:

- Builds speed and accuracy
- Frees up working memory for problem solving

How parents can help:

- Encourage short, regular practice
- Talk about multiplication in real life

Times Tables Rock Stars – What Parents Need to Know

- Garage: personalised practice based on gaps.
- Studio: 10-question timed challenges.
- Arena: live competitions with other pupils.
- Soundcheck: multiplication and division focus.
- Stats: track speed, accuracy and improvement.

Times Tables Rock Stars – Expectations by Year Group

- Year 1–2: Explore 2s, 5s, 10s (accuracy over speed).
- Year 3: Secure 2s, 3s, 4s, 5s, 8s, 10s.
- Year 4: All tables up to 12×12 (MTC readiness).
- Year 5–6: Maintain speed, apply facts to problem solving.

Year 4 Multiplication Tables Check (MTC)

- Statutory national check taken in June.
- 25 questions, 6 seconds per question.
- Focus is rapid recall, not written methods.
- Supports readiness for KS2 maths demands.
- Best preparation: daily TTRS practice. Little and often!

Year 6 SATs – What Parents Should Know

- Three maths papers: Arithmetic + 2 Reasoning papers.
- Tests understanding, fluency and reasoning.
- White Rose prepares children progressively.
- Focus at home: calm practice, confidence, rest.

Year 5

Key focus areas:

- Numbers to 1,000,000
- Long multiplication and division
- Decimals and percentages

Key concepts:

- Scaling
- Place value in decimals

Year 6

Key focus areas:

- Reasoning and problem solving
- Algebra basics
- Fractions, decimals, percentages

Key concepts:

- Generalisation
- Mathematical reasoning