

## What we teach in Maths

At New Avenue, we follow the **White Rose Maths** curriculum across all phases.

Our aim is for pupils to develop a deep, secure understanding of mathematical concepts, rather than relying on memorisation or rote procedures.

We teach small, carefully sequenced steps that build understanding gradually. Pupils move forward together, with additional support or a change of approach if they find concepts difficult. No pupil is left with gaps that would widen over time.

We teach using the **Concrete–Pictorial–Abstract (CPA)** model. Pupils are introduced to new ideas using physical resources (concrete), then move to pictorial representations, and finally work with abstract symbols and numbers. We make sure that concrete resources are used across all phases, not just for those who need extra support.

Multisensory activities (using touch, movement, sound and sight together) are woven into lessons to support all learners, including pupils with ADHD, dyslexia and other learning needs.

## How we teach Maths

Each lesson follows a consistent structure:

- **Times Table Activity**

Pupils practise key multiplication facts relevant to their stage (e.g., 2s, 5s, 10s in Year Phase F(b); 3s, 4s, 8s in Phase 1a; 6s, 7s, 9s, 11s, 12s in Phase 1b).

- **Retrieval Practice**

Pupils revisit something they have already learned, either from the previous lesson, term or a previous year. This builds long-term memory and helps link old and new learning.

- **New Learning**

The learning intention is shared clearly at the start. Teaching moves from concrete resources to pictorial models to abstract understanding. Pupils apply their learning in reasoning and word problems to show depth of understanding.

- **Commentary and Discussion**

Pupils are encouraged to explain their reasoning and understanding throughout the lesson.

Lessons are multisensory, practical, and designed to build strong mental models for later mathematical thinking.

## How we measure progress in Maths

Progress is assessed through:

- Ongoing questioning, feedback and discussion during lessons.
- White Rose Maths assessments completed in the second half of each term.
- Teacher judgement based on lesson outcomes and engagement with tasks.
- Focused intervention where gaps are identified.

Assessment focuses not just on fluency but also on reasoning, problem-solving and understanding.

# Curriculum Overview for Maths

Phase	Focus	Key Topics
Foundation (Years 1–2)	Building strong number sense, early calculation, measurement and shape understanding	Place value, addition and subtraction, simple multiplication and division, money, time, shape
Phase 1 (Years 3–4)	Securing basic operations, early fractions, reasoning and applying knowledge	Multiplication and division, fractions, time, area, perimeter, statistics
Phase 2 (Years 5–6)	Applying and deepening knowledge across broader maths strands	Fractions, decimals and percentages, ratio and proportion, algebra, geometry, measurement
Phase 3 (Years 7–9)	Strengthening fluency and depth for key GCSE strands	Number operations, algebraic thinking, data handling, geometry, ratios, problem solving
Phase 4 (Years 10–11)	GCSE Maths preparation	GCSE foundation or entry-level qualifications based on individual progress and needs

## Maths Long-Term Plan

Phase	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Foundation (Years 1–2)	Place Value	Addition and Subtraction	Shape and Early Multiplication	Measurement: Length, Mass, Capacity	Money and Time	Position and Direction
Phase 1 (Years 3–4)	Place Value and Addition/Subtraction	Multiplication and Division	Measurement (Area, Perimeter)	Fractions	Decimals and Money	Statistics and Geometry
Phase 2 (Years 5–6)	Place Value and Addition/Subtraction	Multiplication, Division and Fractions	Decimals and Percentages	Algebra and Ratio	Measurement and Geometry	Statistics and Revision
Phase 3 (Years 7–9)	Number: Calculations and Properties	Algebra: Expressions and Equations	Fractions, Decimals, Percentages	Ratio and Proportion	Geometry: Shape, Space and Measure	Data Handling and Probability
Phase 4 (Years 10–11)	GCSE: Number and Algebra	GCSE: Geometry and Measures	GCSE: Ratio and Proportion	GCSE: Statistics and Probability	Exam Practice and Targeted Interventions	Final Exam Preparation