

Whole-School Maths Intent

A values-led maths curriculum built on Belonging, Trust, Voice, Aspiration, Curiosity and Pride. Our curriculum is ambitious, sequenced, adaptive and tailored for SEMH learners. All pupils have EHCPs, and many are disadvantaged, so we prioritise fluency, confidence and independence. Across KS2 to KS4, pupils develop secure number sense, mathematical reasoning, problem-solving skills and functional numeracy that prepares them for adulthood, employment and accreditation pathways.

Primary (KS2) Summary

- Uses a primary model with White Rose sequencing, with the aim of rapidly securing fluency and reducing gaps.
- Strong focus on number sense, four operations, fractions, place value and core foundations for later algebra and reasoning.
- Frequent retrieval practice, concrete → pictorial → abstract modelling, and explicit instruction.
- Curriculum builds confidence, reduces maths anxiety and develops readiness for KS3 content.
- Coverage includes: number, addition/subtraction/multiplication/division, fractions, measures, geometry and statistics.

KS3 Summary

- Continues the primary-style, high-support model using White Rose sequencing to ensure consolidation of KS2 gaps.
- Focus on readiness for ratio, algebraic thinking, geometry and probability.
- Pre-teaching, structured revisits and high levels of modelling support SEMH learners to access abstract ideas.
- Lessons embed consistent routines, scaffolds and step-by-step explanations while encouraging independence.
- Coverage includes: number, algebraic thinking, ratio and proportion, statistics and probability.

KS4 Pathways (Y10–Y11)

Entry Level & Functional Skills

- Curriculum prioritises functional numeracy, preparation for adulthood, and employability-linked maths.
- Y10 typically follows Entry Level / Functional Skills content; Y11 builds towards Functional Skills Level 1/2 with GCSE where appropriate.
- Emphasis on problem-solving in realistic contexts, interpreting information, applying number fluently and making informed decisions.

The Orchard School – Maths Curriculum Map Key

Stage 2-Key Stage 4



GCSE (where appropriate)

- Pupils ready for GCSE are supported through structured modelling, scaffolding and high-impact revision routines.
- Focus on algebra, ratio, geometry, number fluency and exam strategies geared to individual needs.

Golden Thread (KS2 → KS4)

- Number Sense → Fluency → Reasoning → Problem-Solving → Accreditation
- Fluency develops through routine practice, Concrete → Pictorial → Abstract (CPA) modelling and structured steps.
- Reasoning grows through discussion, modelling, worked examples and scaffolded questioning.
- Independence increases from concrete tasks to multi-step functional maths and accreditation-linked problem-solving.
- Pathway culminates in Entry Level, Functional Skills and GCSE where appropriate.