Mathematical Fluency at Amotherby School

Building confidence, skilful mathematicians for life

What is mathematical fluency?

Mathematical fluency means being able to recall key facts quickly and accurately, use flexible strategies, and understand how numbers work. It helps children build confidence and supports success in all areas of maths.

Our approach

We use White Rose Maths and a mastery approach, supported by the Mastering Number programme in the early years and Key Stage 1. Learning is carefully sequenced in small steps and builds cumulatively across school.

White Rose Maths

Mastering Number

Five areas of fluency

1. Number & Place Value
2. Addition & Subtraction
3. Multiplication & Division
4. Fractions, Decimals & Percentages
5. Measurement & Geometry

These skills build year on year from Reception to Year 6.

Reception (EYFS)

Number sense to 10

- Subitise up to 5
- Count reliably to 10 and beyond
- Understand the composition of numbers to 10
- Recall number bonds within 5 and 10
- Compare quantities (more/less/equal)



Match, sort, compare, represent, one more/one less and explore how numbers are made.

Year 1

Building strong foundations

- Count to 100 forwards and backwards
- Count in 2s, 5s and 10s
- Read and write numbers to 100
- Number bonds to 10 (automatic recall)
- Add and subtract within 20 using mental strategies

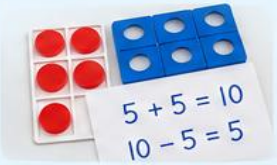


Use part–whole models, bridging through 10 and explore fact families.

Year 2

Developing confidence and mental strategies

- Count in 2s, 3s, 5s and 10s
- Understand place value to 100
- Recall all number bonds to 20
- Add and subtract 2-digit numbers
- Recall ×2, ×5 and ×10 tables

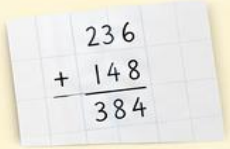


Use known facts to derive others and build efficient mental strategies.

Year 3

Increasing fluency and understanding

- Count in multiples of 4, 8, 50 and 100
- Understand 3-digit numbers
- Formal written methods (column) for addition and subtraction
- Recall ×3, ×4 and ×8 tables
- Begin written multiplication



Use arrays and grouping to understand multiplication and division.

Year 4

Securing key facts and applying skills

- Numbers to 10,000
- All times tables to 12 × 12 (statutory check)
- Use efficient written and mental methods
- Develop fluency with fractions
- Apply knowledge to problem solving

×	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Develop fluency across all times tables and apply skills in a range of contexts.

Year 5

Deepening understanding and applying fluency

- Numbers to 1,000,000
- Count in powers of 10
- Long multiplication and short division
- Fluency with fractions and decimals
- Apply fluency to problem solving and reasoning



Use mental and written methods with increasing efficiency and apply fluency to more complex problems.

Year 6

Applying fluency with confidence

- Numbers to 10 million
- Negative numbers
- Multi-step problems
- Long division
- Fractions, decimals and percentages
- Use fluency to reason and solve problems in real-life contexts



Fluent recall and flexible use of skills supports success in KS2 and beyond.

How you can help at home

Regular, short practice of key facts, using everyday maths and playing games all help to build fluency and confidence. See our 'How you can help with maths at home' guide for ideas.

Together we can make a difference

Consistent practice at home and school helps children develop the skills, confidence and love of maths they need for life.

Active – Aspire – Achieve

Confident mathematicians for a successful future.