ST MICHAEL'S C OF E PRIMARY SCHOOL

Mathematics across our school

Courage to flourish in the love of God

Believe
Achieve
Flourish

OUR VISION FOR MATHEMATICS

Understand • Remember • Reason • Apply

Deep knowledge | Make connections | Confident reasoning | Apply in real life

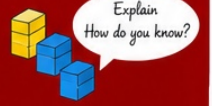
Mathematics for life, rooted in Christian values.

MATHS LESSONS | Teach understanding and make connections

White Rose small steps • tailored curriculum • full coverage • agreed calculation progression

I Do: model and explain.
We Do: work together and check understanding.
You Do: practise independently when ready.

Connect objects, pictures and symbols (CPA).
Teach vocabulary and use sentence stems.
Explain, compare, justify and solve problems.



MOT
(Maths On Track)



Planned retrieval of earlier learning. Space and mix taught skills; model efficient methods and correct misconceptions.

Keeps the curriculum active.

99 CLUB
Progressive recall practice



Practise number facts and calculation recall at an appropriate level. Identify facts to strengthen and recognise improvement.

Builds accuracy and confidence.

TIMES TABLES
Explicit teaching + recall



Teach patterns, arrays, doubling and related facts. Use Number Sense and TTRS practice to strengthen specific facts.

Connects multiplication and division.

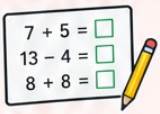
YEAR 1 NUMBER BONDS to 20



Daily practice of number bonds to 20 using a range of representations (part-whole, bar models, ten frames and number lines).

Builds fluency and flexibility.

YEAR 1 FLUENCY ARITHMETIC



Daily short fluency arithmetic sheets (addition, subtraction, number bonds, number patterns and simple problem solving).

Develops speed, accuracy and recall.

BACK INTO MATHS: use secure knowledge in new learning

Choose efficient methods • reason and explain • solve increasingly complex problems

THE SPIRAL: teach → revisit → connect → deepen → revisit again

Teach new learning → **Revisit** prior learning → **Connect** link concepts → **Deepen** reason and apply → **Revisit again** long-term retention

Knowledge builds over time and is revisited throughout the year and across year groups.

MTC + ARITHMETIC CHECKS

MTC (Multiplication Tables Check): Year 4 recall. Combine with arithmetic, priority-knowledge checks, TTRS information and everyday assessment.

ASSESS → RESPOND → REVIEW

Identify specific gaps. Use scoop groups, pre-teaching and precise practice. Recheck understanding and use findings to plan the next lesson and MOT.

Assessment feeds back into teaching, retrieval and support.

OUR CURRICULUM BY YEAR GROUP

NURSERY

- One adult-led White Rose maths activity per week.
- Daily maths through play, exploration and continuous provision.
- Counting, number sense, subitising, sorting and comparing.

RECEPTION

- Teach NCETM Mastering Number as a daily starter.
- Two days a week: maths lesson with an activity.
- Two days a week: maths lesson with carpet time.
- White Rose resources to support.

YEAR 1

- Primary Stars and White Rose Maths alongside NCETM Mastering Number.
- Primary Stars twice the cognitive load to reduce reading and make it more practical.
- Daily number bonds to 20 and fluency arithmetic sheets.

YEAR 2

- Follow our maths structure.
- Tailored curriculum with steps added or removed to meet children's needs.
- Resourced using Grammarsaurus (aligns to White Rose Maths).

YEAR 3

- Follow our maths structure.
- Tailored curriculum.
- Resourced using Grammarsaurus (aligns to White Rose Maths).
- Daily MOT, 99 Club, times tables and arithmetic practice.

YEAR 4

- Follow our maths structure.
- Tailored curriculum.
- Resourced using Grammarsaurus (aligns to White Rose Maths).
- Daily MOT, 99 Club, times tables and arithmetic practice.

YEAR 5

- Follow our maths structure.
- Tailored curriculum.
- Resourced using Grammarsaurus (aligns to White Rose Maths).
- Daily MOT, 99 Club, times tables and arithmetic practice.

YEAR 6

- Follow our maths structure.
- Tailored curriculum.
- Resourced using Grammarsaurus (aligns to White Rose Maths).
- Daily MOT (five times a week) and arithmetic practice.

Year 1 – 6 have a tailored curriculum with steps taken away or added in to support our children and what our children need.

WHAT THIS LOOKS LIKE AS CHILDREN PROGRESS

EYFS / KS1

Daily counting, subitising, number bonds and practical exploration. Year 1: number bonds to 20, fluency arithmetic sheets, MOT and arithmetic.

YEARS 3 & 4

Daily Number Sense, explicit times-table teaching, MOT, 99 Club / recall checks and arithmetic. Year 4: MTC.

YEARS 5 & 6

Apply and retain facts; close remaining gaps. Year 6: MOT five times weekly and arithmetic practice twice weekly.

IN EVERY CLASS: accessible resources • precise vocabulary • responsive support

Challenge through depth • pupils explain methods • feedback leads to corrections