How do we teach Maths at Middleforth?

PARENTS WORKSHOP MONDAY 5TH DECEMBER 2022

There are 3 main strands in the Maths National Curriculum

- ► Fluency
- Reasoning
- Problem solving

The curriculum is designed so that pupils explore mathematical ideas in **depth**.

- Number number and place value
- Number addition and subtraction
- Number Multiplication and division
- Number fractions
- Measurement
- Geometry: properties of shape
- Geometry position and direction
- Statistics (Year 2 only)

Our lessons aim to involve all 3 skills every single lesson.

Maths is so much more than providing the correct answer!

Our Maths Curriculum

Where can we find it?

We follow the Mastery approach (inspired by the Maths taught in Singapore)

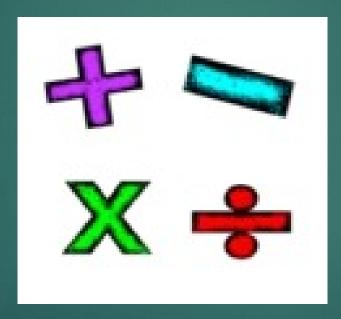
▶ We use 'White Rose' to help us to sequence and plan our lessons.

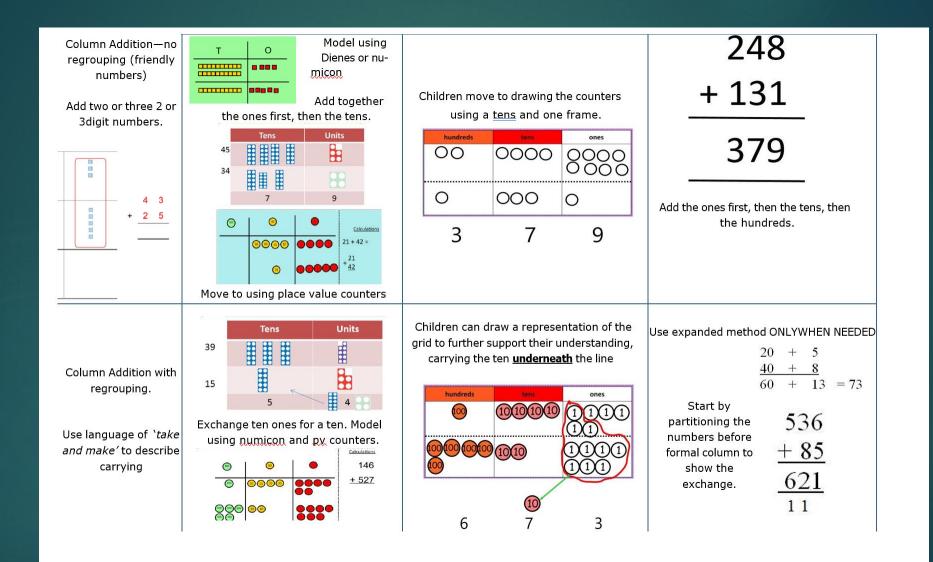
The mastery approach:

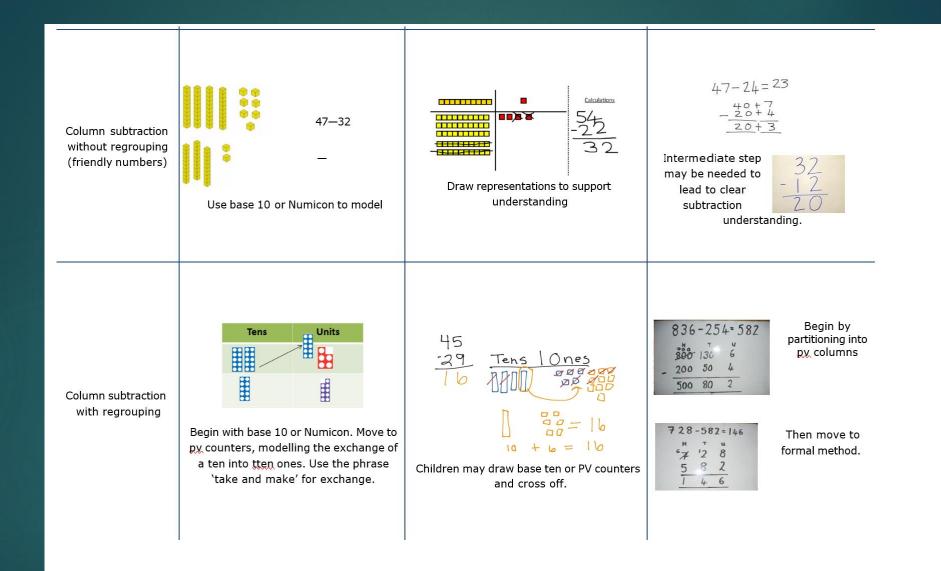
- Everyone can succeed at Maths!
- We break down concepts into 'small steps.'
- We explain Maths concepts using visuals and equipment.
- We give the children lots of short tasks 'the ping pong approach.'
- We provide the children with 'stem sentences.'
- ▶ We ask them to repeat phrases 'I say, you say'
- We constantly assess the children in every lesson and fill any gaps.

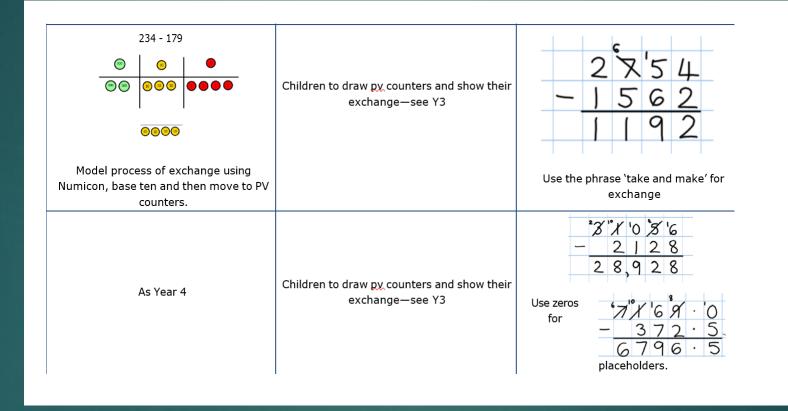
Calculation policy

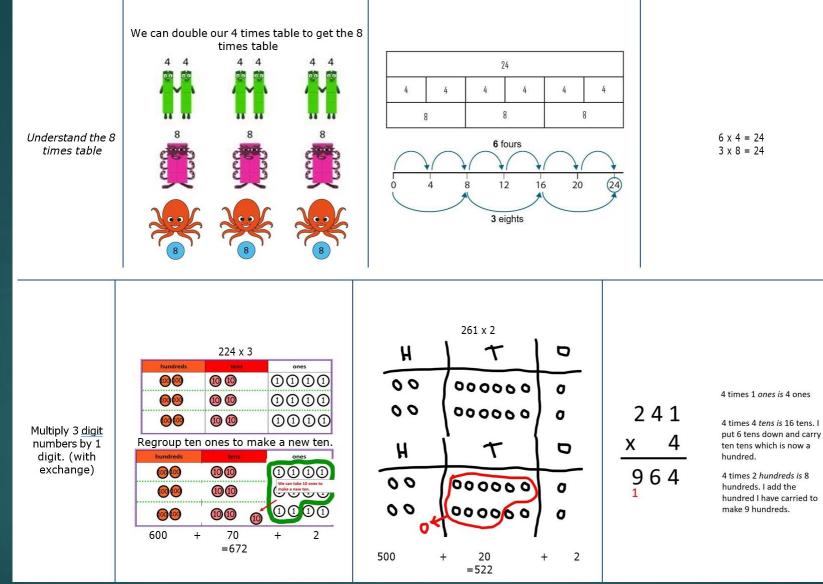
The calculation policy for each year group can be found on the Math page on the website.



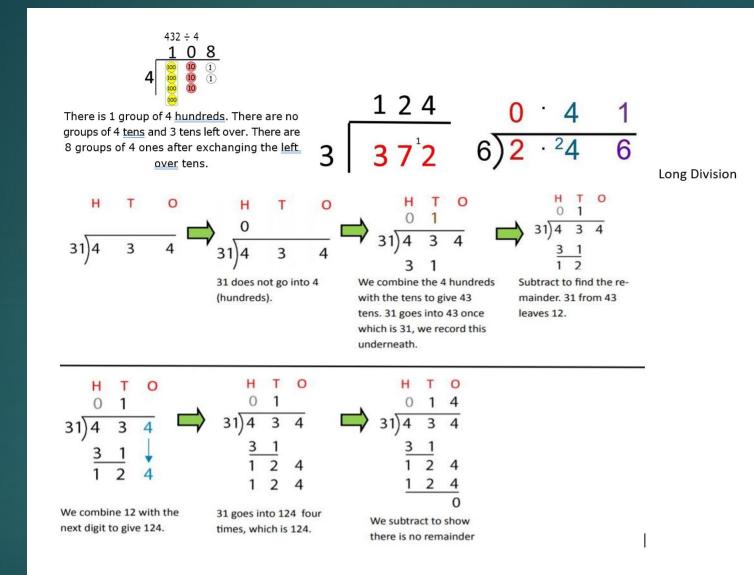








Manipulatives may still be used with the 18 x 3 on the first 8 corresponding long multiplication modelled 10 8 row alongside. 1 3 80 5 4 10 Begin with teen number x teen number. 2 (8 x 3 =24, 1 8 0 carrying the 2 for 24 30 3 2 3 20, then 1 x 3) $\overline{}$ 18 x 10 on the 2nd row. Show multiplying by 10 by putting zero in Progress to any 2 –4 digit number x 2 digit. units first Draw dots and group them to divide an amount and clearly show a remainder. I divide 14 cakes between 3 plates. How are the cakes shared? Complete written divisions and show the remainder using r. 14 ÷ 3 = 4 r 2 dividend divisor quotient remainder



SATS

Tests are given to Year 6 in May.
Children are given arithmetic and

reasoning papers.

In the exam – children will not be allowed to use any resources. However they need to use them in class first of all to support their understanding.

Times table apps:

Times Table Rockstars

► Hit the button

► Topmarks





Arithmetic questions:

- Children are encouraged to show their working out.
- They can draw diagrams if they wish to help them to solve problems.
- **Example:**

Reasoning questions:

There is a big emphasis on reasoning/problem solving in the Maths curriculum.

- Children need to be able to explain their thinking. What do they know?
- We encourage children to use the correct mathematical language in their answers.
- **Examples:**

Useful websites you can use at home:

MyMaths

Mathsbot (online manipulatives)

Topmarks (different topics)

Nrich (challenging tasks)

Please come and see me if you have any questions!

- Feel free to message me via sessaw or contact the school office if you have any Maths related questions/queries/MyMaths/ Times Table Rockstar issues.
- 'PLEASE, PLEASE... NEVER say that you are bad at maths ... not anywhere within a 100-mile radius of any child you ever want to influence.'
- Thank you for coming!