### How do we teach Maths at Middleforth?

PARENTS WORKSHOP MONDAY 5<sup>TH</sup> 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)

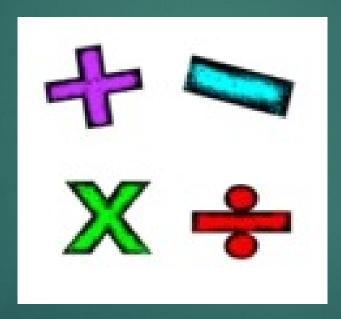
▶ We use 'White Rose' to help us to sequence and plan our lessons.

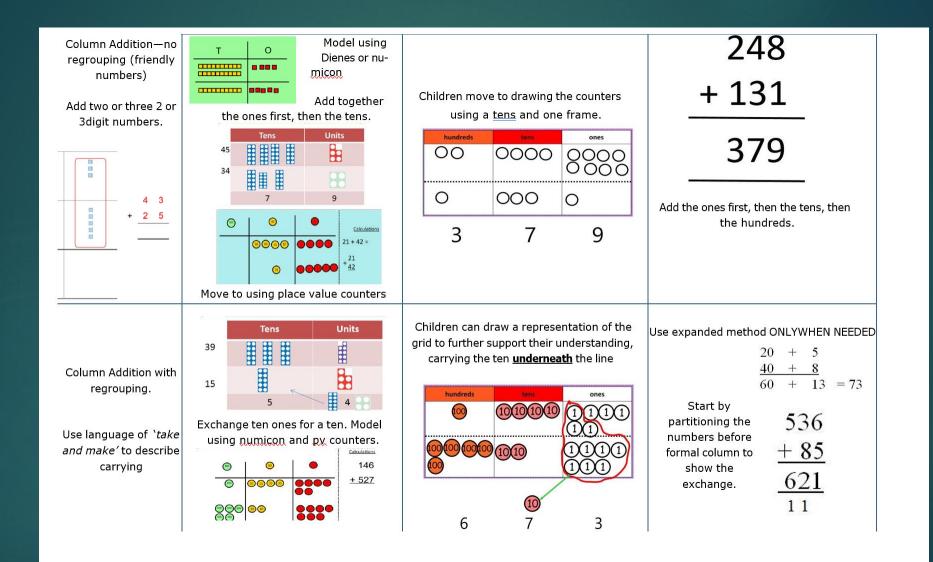
#### The mastery approach:

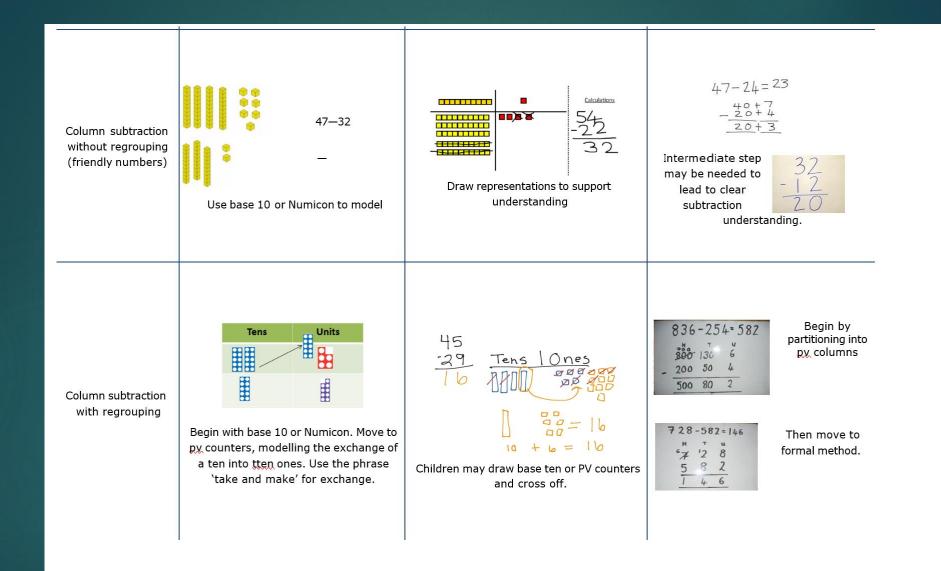
- Everyone can succeed at Maths!
- We break down concepts into 'small steps.'
- We explain Maths concepts using visuals and equipment.
- We give the children lots of short tasks 'the ping pong approach.'
- We provide the children with 'stem sentences.'
- ▶ We ask them to repeat phrases 'I say, you say'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

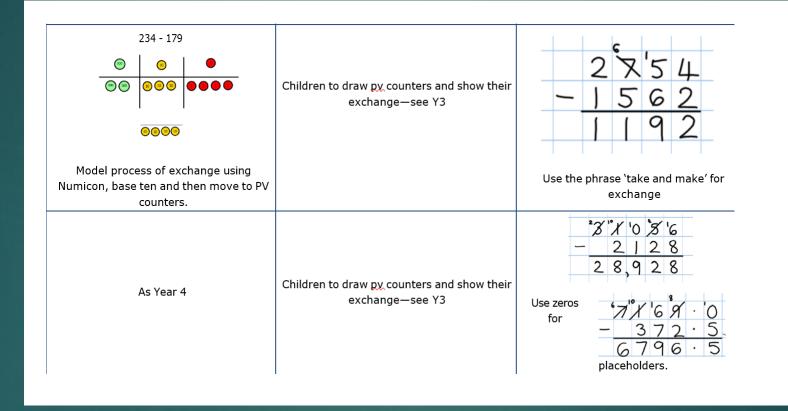
#### **Calculation policy**

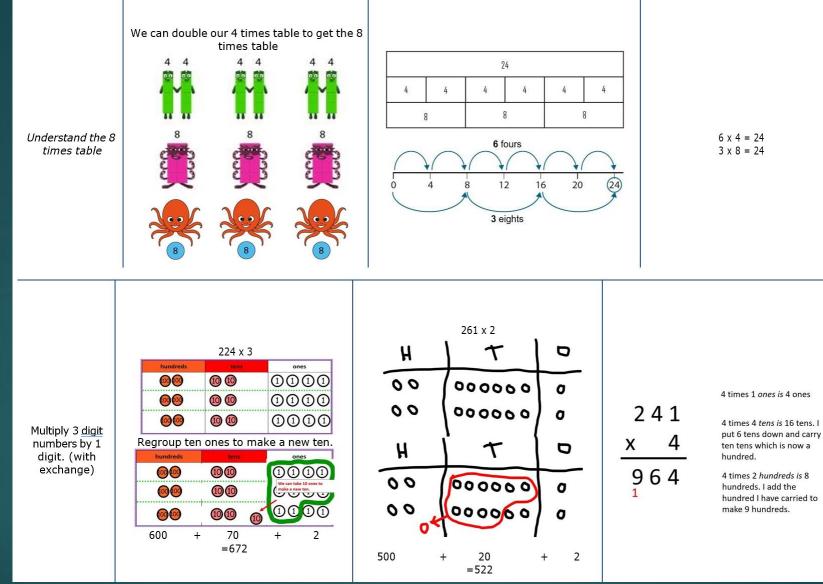
The calculation policy for each year group can be found on the Math page on the website.



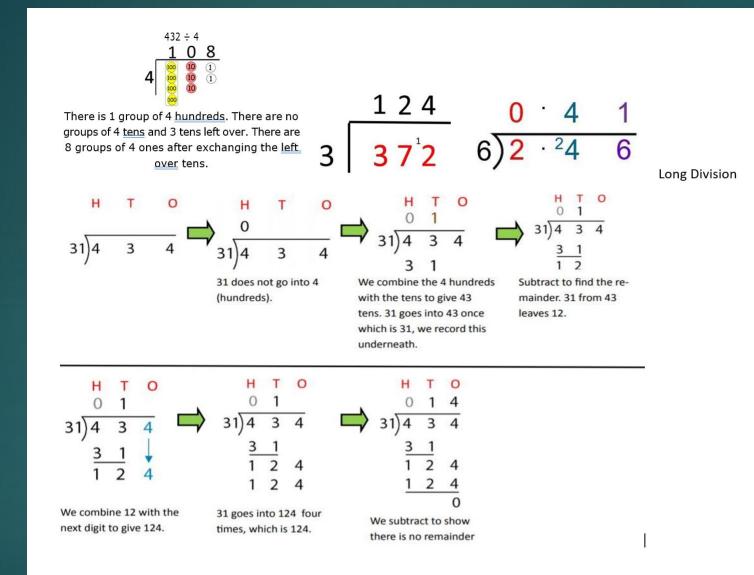








Manipulatives may still be used with the 18 x 3 on the first 8 corresponding long multiplication modelled 10 8 row alongside. 1 3 80 5 4 10 Begin with teen number x teen number. 2 (8 x 3 =24, 1 8 0 carrying the 2 for 24 30 3 2 3 20, then 1 x 3)  $\overline{}$ 18 x 10 on the 2nd row. Show multiplying 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!