Count to and across 100, forwards and backwards from any number.

Read and write numbers to 100; writing numbers to 20 in words and numerals.

Count in multiples of 2, 5 and 10.

Tell the time to the hour and half past the hour.

Year 1 Maths Expectations

Measure and begin to record length, height, weight, capacity and time.

Find one more and one less than any given number.

Add and subtract one and 2-digit numbers within 20.

Know and use number bonds to all numbers within 20.







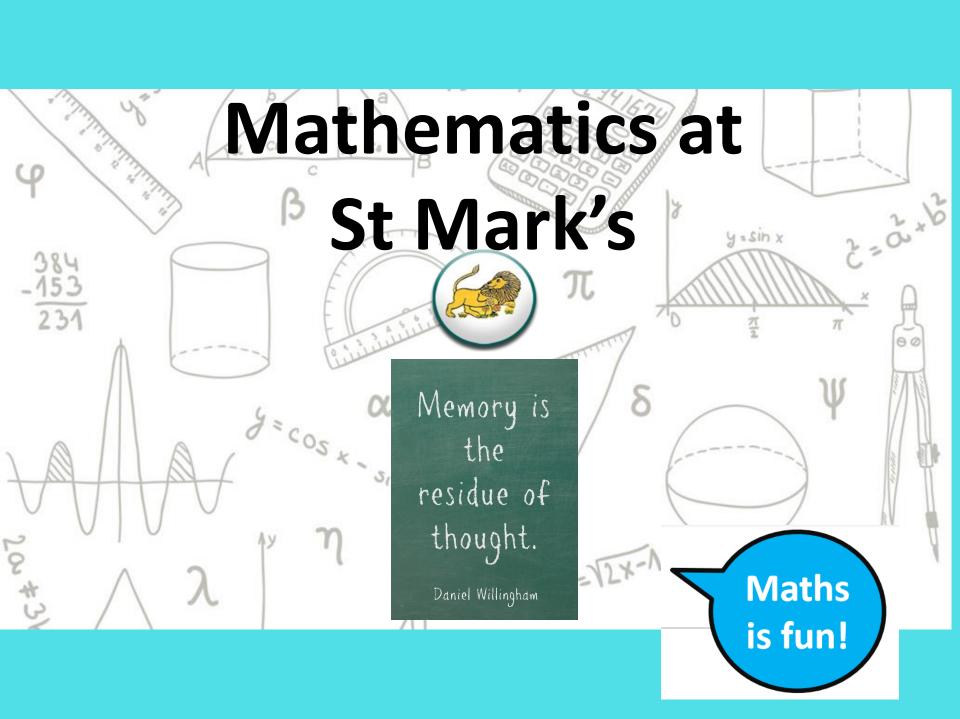








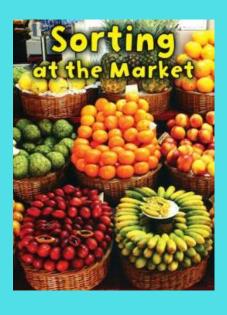


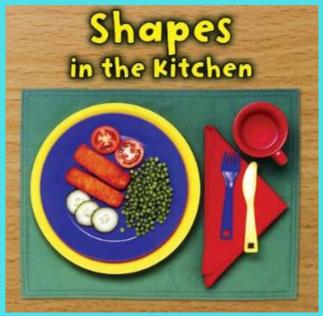


Why is maths so important?

- It is vital to lay secure foundations in early mathematics.
- We want children to engage with all areas of mathematics.
- To give children the tools to help them to develop a better understanding of the mathematical world in which they live.







...recall important number and concept facts

...be fluent in number, choosing the most efficient ways to solve problems

...take risks and be enthused by challenge

...enjoy their Maths lessons

...have a deep and broad understanding of the curriculum

...be able to reason Mathematically by explaining and proving



Our aims are for children to...

...be able to make connections and links between different areas of Maths ...feel like they can succeed and make progress

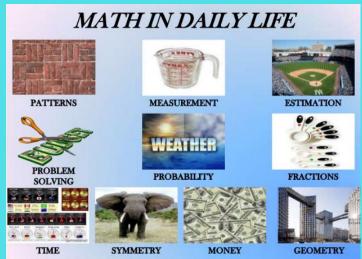
...be able to apply their knowledge in both Maths and other areas of the curriculum

...have a secure conceptual understanding of ideas

How we teach and support children's mathematical learning at St Mark's

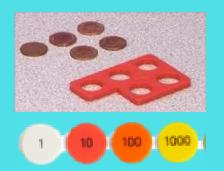
- Daily whole class teaching of a concept to allow <u>all</u> children to master the learning.
- Practical exploration through a concrete, pictorial, abstract approach.
- Time for children to develop their fluency in a concept and practice.
- Spotting the maths around us.

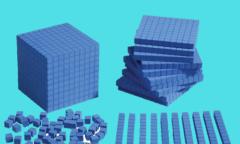


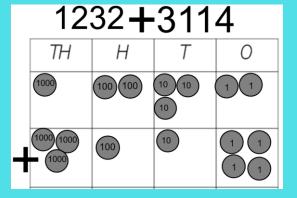


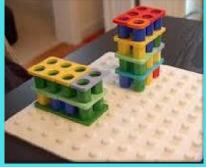
Learning practically at school.

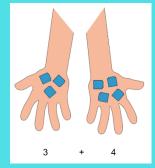
We use concrete resources and visual aids where possible to help children build a conceptual understanding in all areas of maths.

















Number lines



Bead String



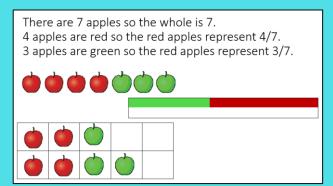
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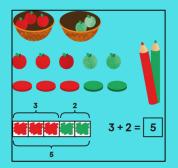


Sorting Objects



Counters





For example...

Let's make a number 1-10 using any of the concrete apparatus on the table.



Matching the digit cards to the resources connects the abstract and concrete.









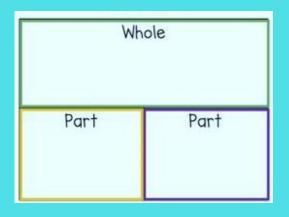
Sorting Objects Co

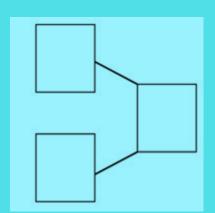
Counters

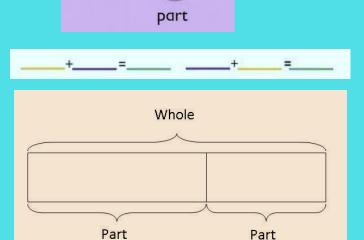
Part-Part Whole Model

Diagrams can help children to understand and visualise the structure of numbers and number sentences.

The part-part whole model can be used to help represent the number.

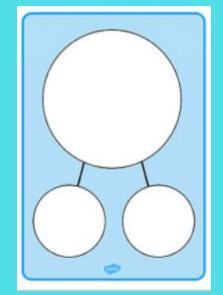


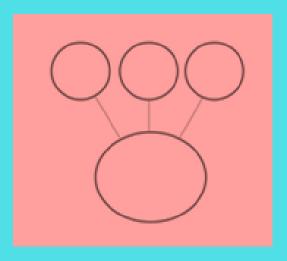




part

whole





Varied fluency and variation

The children show their understanding of a concept by representing in different ways.

Variation: Showing different representations provides learners with opportunities for deeper understanding.

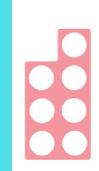
These are all doubles. True or false?

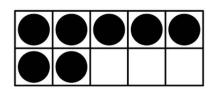
Convince me.







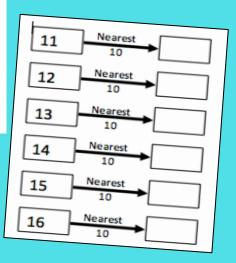










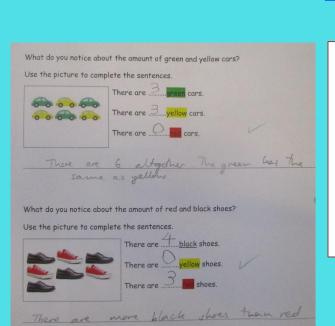


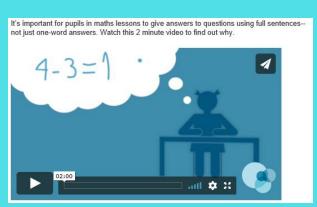
The importance of vocabulary: reasoning and explaining.

Stem Sentences



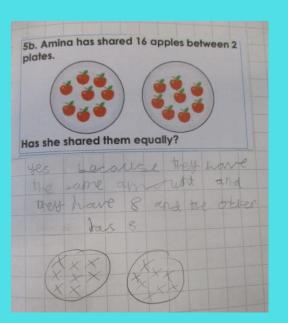
What could the five counters represent?





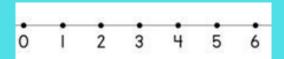
https://www.ncetm.org.uk/resources/49824

Not all Maths is just wrong or right. In order to show a deep understanding about a concept, children need to be able to explain their thinking using Mathematical vocabulary



Numbers - calculating

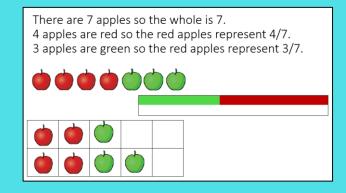


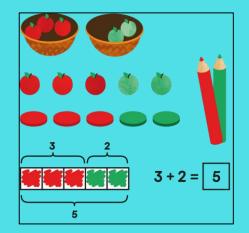


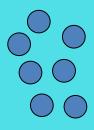


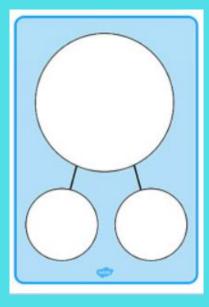


The children use a variety of resources to solve addition and subtraction problems.

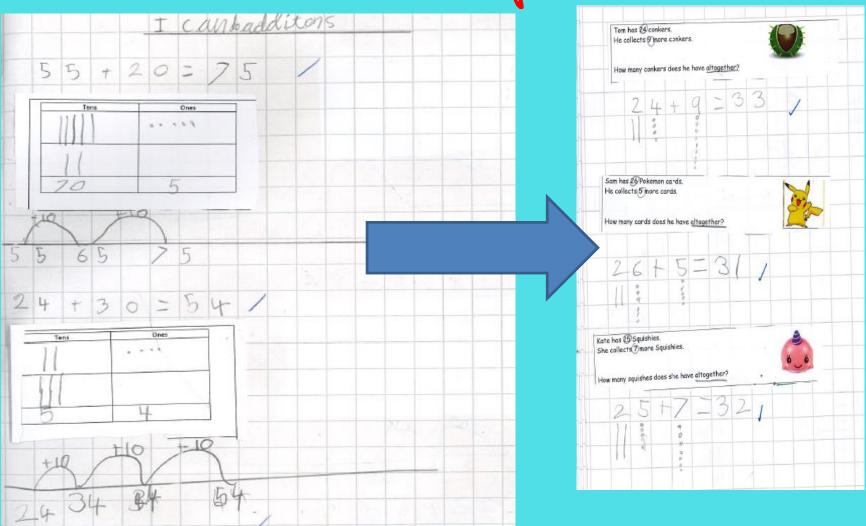








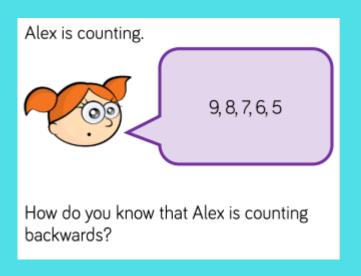
For example ...

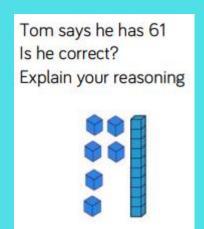


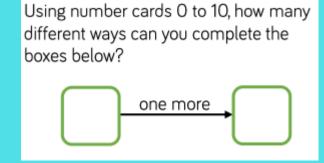
Children will practise the procedure before applying it to problems, allowing them to deepen their understanding.

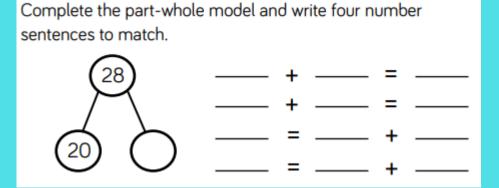
Fluency and Deeper Thinking

In order to embed skills and understanding, children will solve more complex problems which will deepen their understanding of a concept using language.





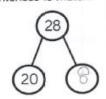


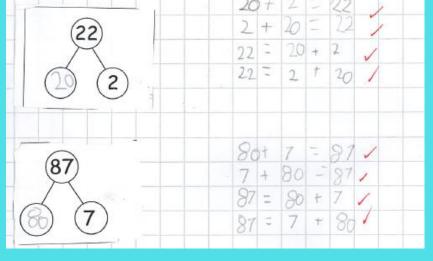


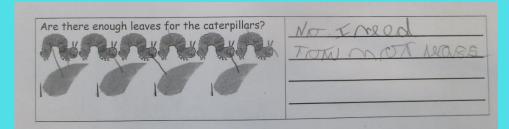
For example...

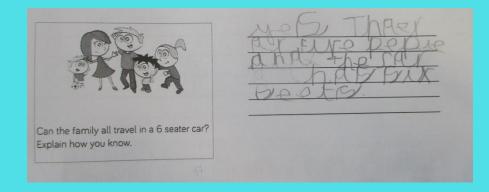
I can partition 2 digit numbers

Complete the part-whole model and write four number sentences to match.









Number Facts/Times Tables/ Multiplication Recall

National Curriculum - Statutory Guidance for multiplication and division tables

Year 2

Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables.

Year 3

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

Year 4

Recall multiplication and division facts for multiplication tables up to 12×12 .

2x÷	3x÷	4×÷	5x÷	6x÷	7 _{x÷}	8x÷	9x÷	10x÷	11×÷	12x÷

Learning their number facts and times tables is fundamental for solving more complex number problems as this knowledge is required for most areas of Mathematics





Any questions?

Thank you for listening.















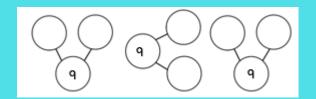




Join us back in the classrooms

I can partition numbers up to 10 in different ways.

- Resources will be out on tables encourage your children to explain how they use them
- Encourage the use of stem sentences and language.
- Feel free to question their understanding how do you know? Can you explain that to me?
- Please help your child to complete the learning but try not to do
 it for them use resources and questions to support them.



How many ways can you make 10 using Draw your ideas here.



True or false. There are only 4 ways to make the number 4. Draw the part-whole model to explan your answer.















