Maths Open Morning

27th February 2018 Miss Carruthers Maths Subject Leader The essence of mathematics is not to make simple things complicated, but to make complicated things simple.

Stan Gudder
 Mathematician

Agenda

- Maths expectations for children
- How we teach Maths at St Vincent's
- How you can teach Maths at home
- Video support for parents
- Opportunity to see Maths being taught in all class across the school

Learning Journeys

Each class has a Yearly Overview to follow which is linked to the Maths No Problem scheme.

Each class also has a Learning Journey to assess the children with.

- This can be used to help teachers plan as gives clear examples and expectations.
- Look on website to find your child's Learning
 Journeys so you can see what they have to learn
 (found on the Year page under news/blog/home
 learning)
- You will get updated ones on Parents Evening.

Lesson Structure

Most lesson are using Maths No Problem

- Encourages discussion and exploring methods
- Focus on the fundamentals a lot of time given to making children secure in this.
- Use a lot of manipulatives and pictures, before moving onto numbers.

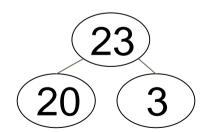
Moved away from grouping

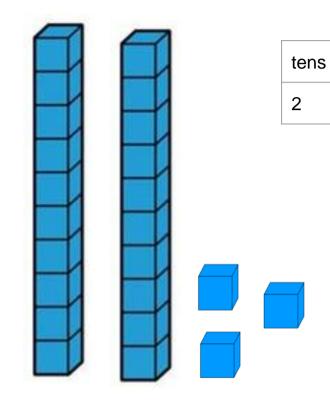
- Children work on the same concept, using their learning partners for support.
- Lessons consist of all children doing the same work, and then challenge activity if children finish.

Place Value

- Basis of all Maths
- Partitioning of a number
- Expressing this in different ways.

23

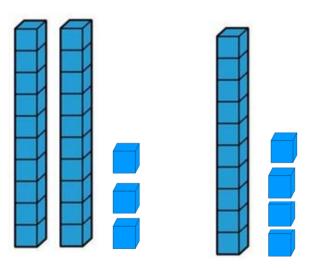




ones

3

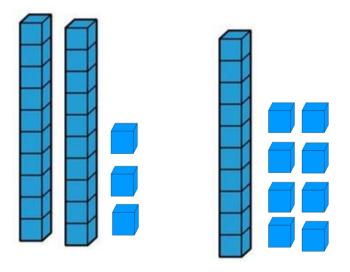
Calculation



tens	ones
2	3

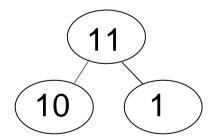
tens	ones
1	4

Renaming



Add the ones:	3 + 8 = 11
Add the tens:	2 + 1 = 3

tens	ones
3	11



Multiplication using Maths No Problem

Starts with a picture and a story

Moves onto using numbers and written method

Uses children's understanding of place value and times tables

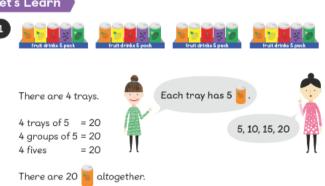
Adding Equal Groups

Lesson 2

In Focus



Let's Learn











There are 3 packs.

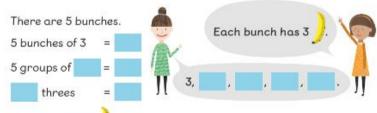
3 packs of 2 = 6 3 groups of 2 = 6 3 twos = 6

There are 6









There are altogether.

Multiplying by 2, 5 and 10

Lesson 8

Year 2

In Focus



Let's Learn

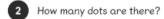


5 x 2 = 10

2 x 5 = 10

5 x 2 = 2 x 5

 5×2 is equal to 2×5 .





5 x 2 = 10

 2×5 is equal to 5×2 .

In Focus



How many oranges are there in the 4 boxes altogether?

Let's Learn



Multiply 2 ones by 4 $2 \times 4 = 8$

× 4

2









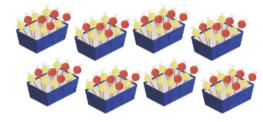
2 0 × 4

Multiply 2 tens by 4 $20 \times 4 = 80$

There are 80 oranges in the 4 boxes altogether.

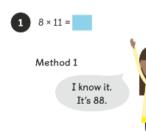
Multiplying 2-Digit Numbers

In Focus



How many \(\) are there in 8 boxes?

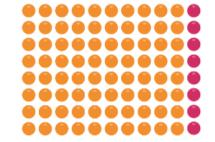
Let's Learn



Method 2

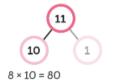
Lesson





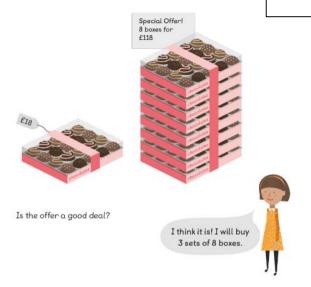
Method 3





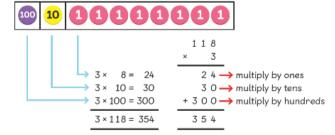
In Focus

Year 5





This shows 118.



Three sets of 8 boxes cost £354.

Let's Learn



8 × £18 =







$$\begin{array}{c}
1 & 8 \\
\times & 8 \\
\hline
6 & 4 \longrightarrow \text{by ones} \\
+ 8 & 0 \longrightarrow \text{multiply} \\
\hline
1 & 4 & 4
\end{array}$$

$$8 \times 10 = 80$$

$$8 \times 8 = 64$$

8 boxes would have cost £144.

What is the saving?



They now cost £118.

In Focus

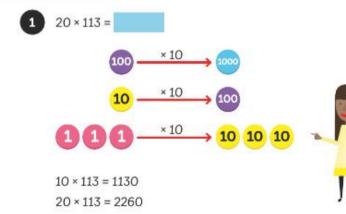
A standard box of apples contains 113 apples.

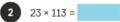
A pastry shop needs 2500 apples for its apple pies. Would ordering 23 standard boxes of apples be enough for them?



10 × 113 = 1130

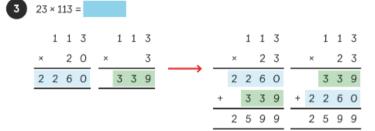
Let's Learn







23 boxes contain 2599 apples.



23 boxes contain 2599 apples.

There are enough apples in 23 boxes.



How to teach Maths at home.

Practise little and often

- Times tables
- Number bond facts (+ and)
- Playing with numbers



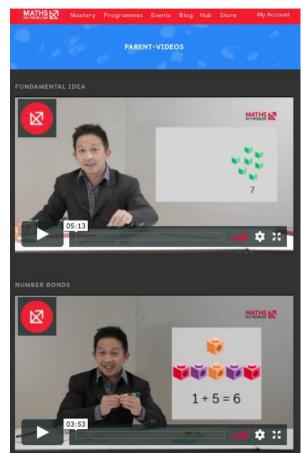


Videos for Parents.



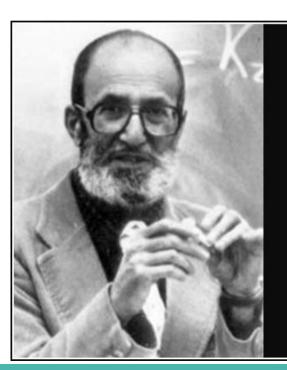
Link: School website -> Curriculum & Ethos -> Home Learning

Link: School website -> Curriculum & Ethos -> Curriculum



Thank you for listening.

Any questions?



The only way to learn mathematics is to do mathematics.

— Paul Halmos —

