Mathematics Information Session

Mr Emmett & Mr Mitchell
Year 6 Teachers and Leaders of Mathematics

Why White Rose Maths?

- Worked with professional maths consultants over the summer

- Their mission is to support primary school teachers and parents all over the UK in helping children work towards maths mastery and change dttitudes towards this subject, encouraging a growth mindset in both teachers and learners. Adopting a White Rose Maths approach to teaching means making sure all children have the same opportunities to learn and the support they need to fully grasp concepts

- The philosophy behind White Rose Maths also focuses on maklng maths fun for children and helping them to find enjoyment in number problems

Our Curriculum

- Progressive from EYFS to leaving in Year 6
- Sequenced
- Builds on prior learning
- Small step approach to deepen understanding of concepts
- Uses a concrete, pictorial, abstract approach
- Allows opportunity for rehearsal and practise of key skills throughout
- Mastery style with opportunity for children to consolidate and extend their learning
- Learn more, remember more

Our Curriculum – Lesson Structure

Flashback 4 – Retrieval Practice and Recap

Key Vocabulary – Getting children to speak and think like mathematicians (see attached glossary for key terms)

Key Learning – children are introduced to the new concept which is modelled by the teacher in a ping pong style with the children.

Independent practice – children have chance to independently practise what has been modelled in a different variety of ways.

At this point children are identified to further support or extend quickly in their learning.

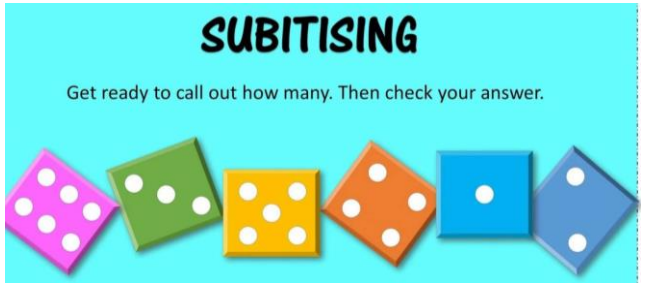
Problem Solving and Reasoning – Children have the opportunity to apply their learning to other areas of maths and show a deeper understanding.

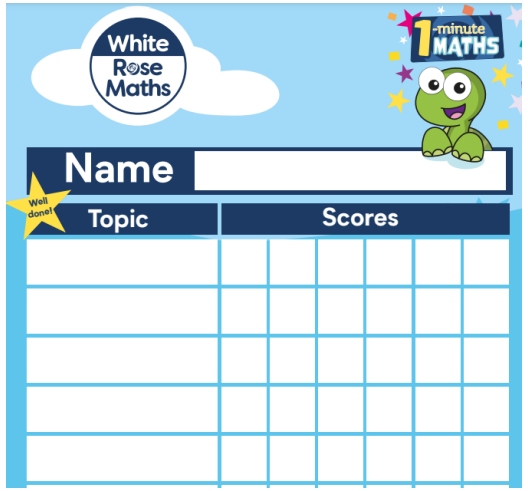
How do we support your children?

- Quality first teaching
- Assessment for learning strategies to identify children with specific areas of development
- Same day intervention and pre teach groups
- A short, medium and long term approach to assessment
- Instil belief in the children that they all can achieve well in maths

Maths in EYFS

- Nursery and Reception use WRM
- Mixture of provision and formal maths introduced to prepare children for further up school
- Subitising is a key skill that children in EYFS and KS1 will develop
- Huge focus on counting, number sense and understanding number
- Maths through reading





Progression within Maths

Year 1

- Step 1 Sort objects
- Step 2 Count objects
- Step 3 Count objects from a larger group
- Step 4 Represent objects
- Step 5 Recognise numbers as words
- Step 6 Count on from any number
- Step 7 1 more
- Step 8 Count backwards within 10
- Step 9 1 less
- Step 10 Compare groups by matching

Year 2

- Step 1 Numbers to 20
- Step 2 Count objects to 100 by making 10s
- Step 3 Recognise tens and ones
- Step 4 Use a place value chart
- Step 5 Partition numbers to 100
- Step 6 Write numbers to 100 in words
- Step 7 Flexibly partition numbers to 100
- Step 8 Write numbers to 100 in expanded form
- Step 9 10s on the number line to 100
- Step 10 10s and 1s on the number line to 100

Year 3

- Step 1 Represent numbers to 100
- Step 2 Partition numbers to 100
- Step 3 Number line to 100
- Step 4 Hundreds
- Step 5 Represent numbers to 1,000
- Step 6 Partition numbers to 1,000
- Step 7 Flexible partitioning of numbers to 1,000
- Step 8 Hundreds, tens and ones
- Step 9 Find 1, 10 or 100 more or less
- Step 10 Number line to 1,000

Progression within Maths

Year 4

- Step 1 Represent numbers to 1,000
- Step 2 Partition numbers to 1,000
- Step 3 Number line to 1,000
- Step 4 Thousands
- Step 5 Represent numbers to 10,000
- Step 6 Partition numbers to 10,000
- Step 7 Flexible partitioning of numbers to 10,000
- Step 8 Find 1, 10, 100, 1,000 more or less
- Step 9 Number line to 10,000
- Step 10 Estimate on a number line to 10,000

Year 5

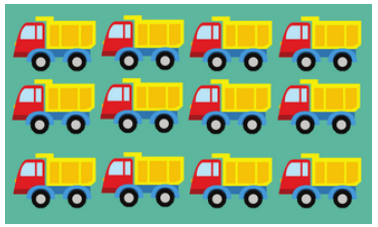
- Step 1 Roman numerals to 1,000
- Step 2 Numbers to 10,000
- Step 3 Numbers to 100,000
- Step 4 Numbers to 1,000,000
- Step 5 Read and write numbers to 1,000,000
- Step 6 Powers of 10
- Step 7 10/100/1,000/10,000/100,000 more or less
- Step 8 Partition numbers to 1,000,000
- Step 9 Number line to 1,000,000
- Step 10 Compare and order numbers to 100,000

Year 6

- Step 1 Numbers to 1,000,000
- Step 2 Numbers to 10,000,000
- Step 3 Read and write numbers to 10,000,000
- Step 4 Powers of 10
- Step 5 Number line to 10,000,000
- Step 6 Compare and order any integers
- Step 7 Round any integer
- Step 8 Negative numbers

Progression within Maths

Times Tables Progression



Year 1 – Count in 2's, 5's and 10,s and make arrays.

Year 2 – Learn 2's, 5's and 10's.

Year 3 – Learn 2's, 5's, 10's, 3's, 4's and 8's.

Year 4 – Learn up to 12x12 including division facts in preparation for MTC check.

Year 5/6 – Master times tables up to 12x12 and beyond.

How we teach times tables at Westerton.

- Through the curriculum

- Being active

- Recall using songs and chants

- Practise using apps such TTRS, 1-Minute Maths and Hit the Button

How we teach times tables at Westerton

TTRS

1-Min Maths

Hit the Button

Active Learning

Assessment Points

Year 2 – EOKS SATS

Year 4 – EOY MTC Check

Year 6 – EOKS SATS

Assessment Points – Preparation for Year 6

- MyMiniMaths

- Maths4Everyone

- Maths Bot

Any Questions?

How to support your child at home

- This week in maths letter.

Not homework but a chance to see what the children have been getting up to in there lessons so you can work with them at home.

How to support your child at home

Around the hall are stalls and free resources for you to take at home to help support your child's development in maths at home.

There also samples of the children's work, our curriculum and a chance to access some of the apps that the children use to develop their key recall knowledge.

Useful Apps

TTRS

1-Min Maths

Hit the Button

Preparing for the end of Year 6

Maths4Everyone

MyMiniMaths

MathsBot

Booklets for Home

Glossary

https://www.ncetm.org.uk/media/hpihrj3s/national-curriculum-glossary.pdf