

MATHS NEWSLETTER April 2024



Introduction

Welcome to our Spring Maths Newsletter. In our termly newsletter we will keep you informed of what we have been learning in school and how you can support your child at home on their mathematical journey. It has been another exciting and busy term and it is fantastic to see the children making excellent progress and enjoying their learning!



How is Maths taught in school?

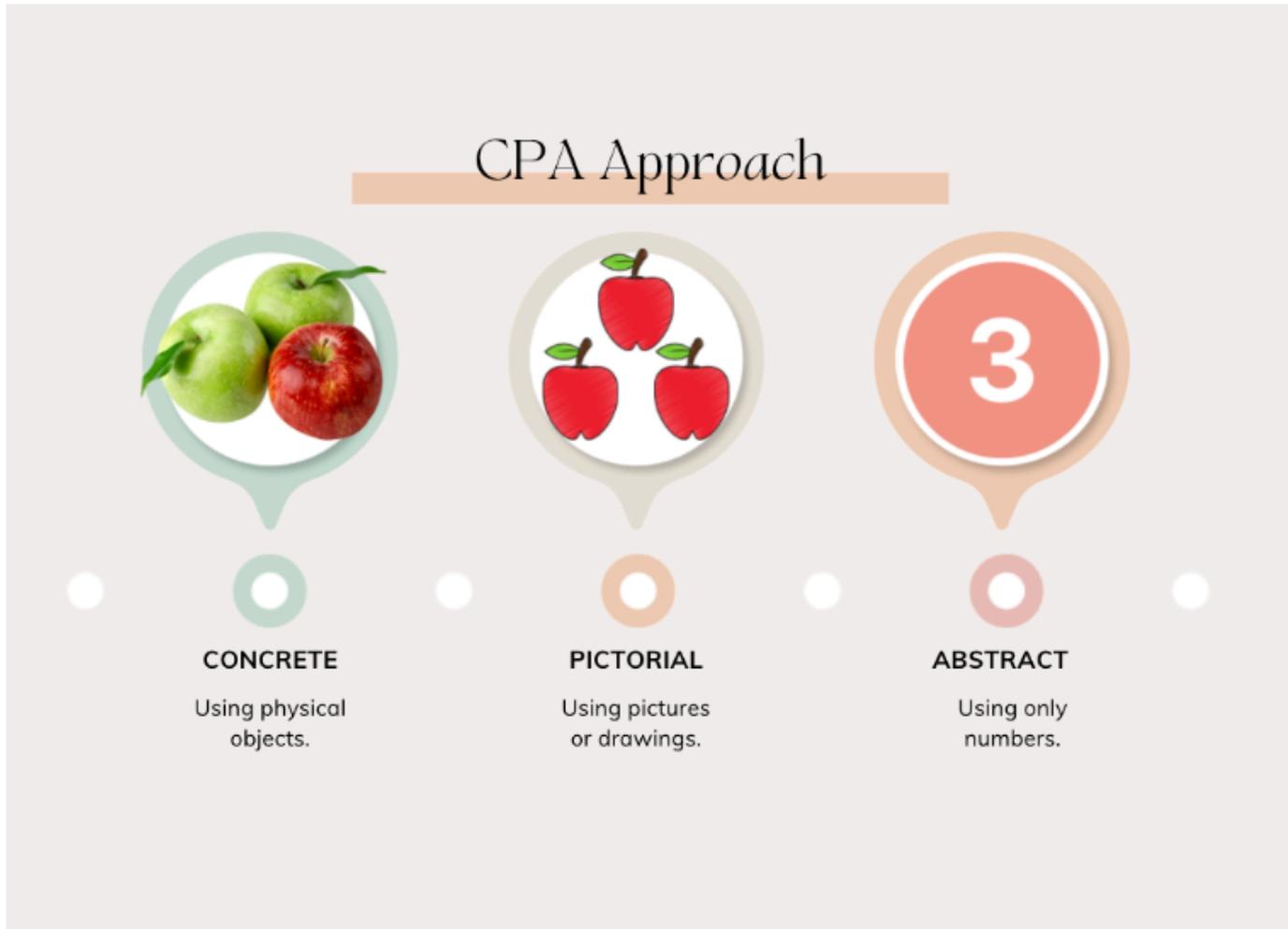
In school we continue to use the White Rose Maths (WRM) scheme of learning which aims to support all pupils to achieve a deep understanding and competence in mathematics through a teaching for mastery approach. Teaching for mastery rejects the idea that children 'can't do maths' therefore pupils are encouraged by the belief that by working hard they can succeed. **"Everyone Can Do Maths: Everyone Can!"**

What is White Rose Maths?

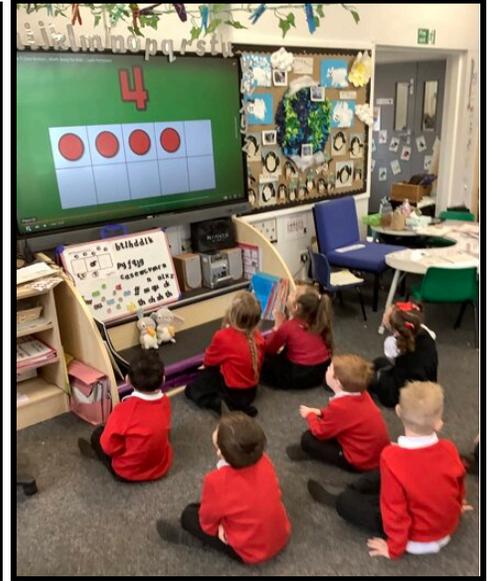
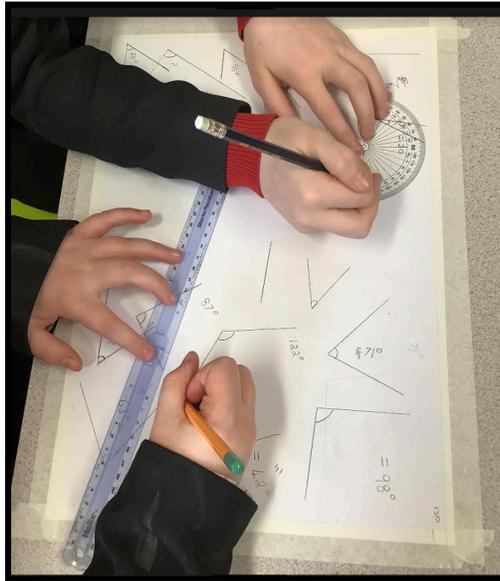
White Rose Maths is an organisation that provides maths resources and schemes of learning for pupils of all ages, from early years to secondary school. The [Schemes of Learning \(SOL\)](#) outline yearly frameworks that break down what children need to learn during each week of each term to master the learning objectives laid out by the National Curriculum. White Rose Maths frameworks are designed to be enjoyable, engaging and varied to help pupils develop a love of learning and work towards mastery with differentiated resources.

White Rose teaches children mathematical concepts through practical, pictorial and written methods in order to develop a deep understanding, confidence and competence in maths whilst improving fluency. Fluency in maths is about developing number sense and being able to choose and use the most appropriate method for the task at hand and to be able to apply a skill to multiple concepts.

It uses the CPA (Concrete, Pictorial, Abstract) approach, which is a highly effective approach to teaching that develops a deep and sustainable understanding of maths in pupils. CPA was developed by American psychologist Jerome Bruner. It is an essential technique within the Singapore method of teaching maths for mastery.



What we have been up to...



St Mary's

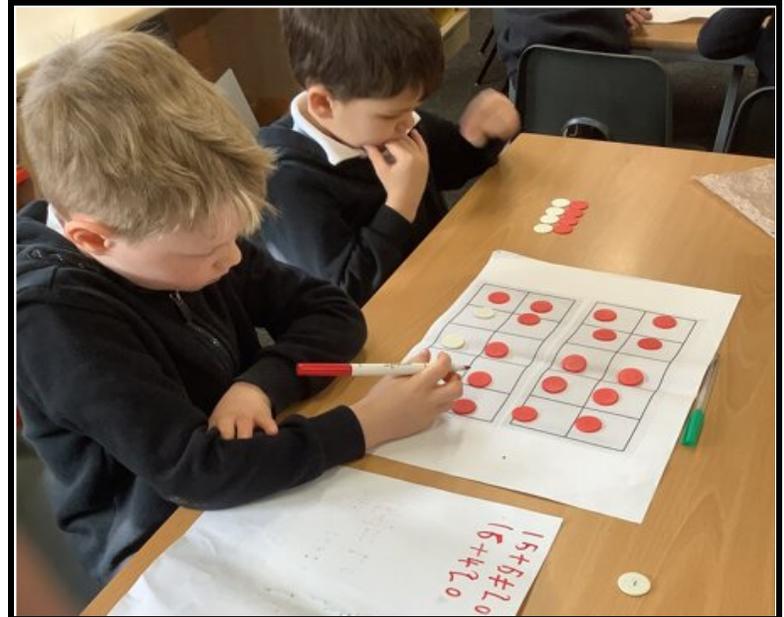
Year group	This term	Home learning links to support...
EYFS	Nursery- early subitising and number 0-3. Number rhymes and stories exploring number. Reception- Numbers 5-10, mass and capacity, length,height and time.	WRM home learning videos and activities via website.
1	Place Value(within 20), Addition and Subtraction (within 20) Place Value (within 50)	WRM homework books via website Please follow the link here and select the correct year group and Summer term unit you would like to explore. This applies for all year groups from 1-6.
2	Shape, Money, Multiplication and Division	WRM homework books via website
3	Multiplication and Division Length and Perimeter Fractions	WRM homework books via website
4	Multiplication and Division), Length and Perimeter, Fractions	WRM homework books via website.
5	Multiplication and Division, Fractions, Percentages and Decimals	WRM videos uploaded to Google Classroom for pupil recap/look ahead and WRM problem solving and reasoning questions made available to all pupils via Google Classroom. WRM homework books via website.

6	SATS Revision: Arithmetic focus Calculating using fractions Decimals Percentages Angles Graphs and Data Money Problems	WRM homework books via website.

The Howard

Year group	This term	Home learning links to support...
EYFS	Shapes with 4 sides, Alive in 5, Mass and Capacity, Growing 6, 7, 8 -	WRM home learning videos and activities via website.
1	Place Value (within 20, Addition and Subtraction (within 20), Place Value (within 50), Length and Height, Mass and Volume, Fluency Bee	WRM homework books via website Please follow the link here and select the correct year group and Summer term unit you would like to explore. This applies for all year groups from 1-6.
2	Money, Multiplication and Division, Length and Height, Fluency Bee	WRM homework books via website
3	Multiplication and Division, Length and Perimeter and Fractions	WRM worksheets made available for selected children for pre teaching of concepts.
4	Multiplication and Division, Length and Perimeter and Fractions	WRM worksheets made available for selected children for pre teaching of concepts.
5	Multiplication and Division, Fractions and Decimals and Percentages,	WRM worksheets made available for selected children for pre teaching of concepts. CGP homework books, targeted homework for SEN
6	Ratio, Algebra, Fractions, Decimals and Percentages, Place Value and Statistics	Weekly CGP homework books, and maths.co.uk testing SAT's revision

How can I help my child at home?

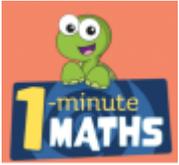


How best to help your child at home? Why not support their mathematics journey by accessing their learning through these home workbooks. Simply click on the link and work through the questions with your child. Revision at the end of a unit is always beneficial as there is some pre-teaching, showing them the next unit they will be learning about in school can boost confidence as well as subject knowledge. More information can be found by clicking on the link:

<https://whiteroseeducation.com/parent-pupil-resources/maths/free-downloads>



Learn how much fun counting can be with the **Numberblocks** - a fun-loving group of numbers who work together to solve problems big and small. Numberblocks is most suitable for children aged **3-6 years**. More information can be found by clicking on the link: <https://www.bbc.co.uk/iplayer/episodes/b08bzfnh/numberblocks>



White Rose Maths have created a free '1-minute maths' app. The aim of the app is to develop pupils' understanding of number and is great for practising early number skills such as subitising (the skill of instantly recognising the number of items in a group without counting) addition, subtraction, multiplication and division. The app is most suitable for pupils from **Reception up to Year 3**. More information can be found by clicking on the link: <https://whiteroseeducation.com/1-minute-maths>



Hit the Button is an interactive maths game aimed at **5-11 year olds** with quick fire questions on number bonds, doubling and halving, multiplication and division facts and square numbers. The games, which are against the clock, challenge and develop mental maths skills. More information can be found by clicking on the link:

<https://www.topmarks.co.uk/apps/hit-the-button>



This activity exactly mirrors the 'Multiplication Tables Check' that will be given to children at the end of **Year 4**. They are tested on their multiplication tables up to 12 x 12. There are twenty-five questions and children have six seconds to answer each question and three seconds between questions. The questions are generated randomly using the same rules as the 'Multiplication Tables Check'. More information can be found by clicking on the link:

<https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check>

Challenge your child...



Fancy taking on your child in Maths? Why not see if you can both answer the Place Value challenge questions for your child's year group below.

Year 1

Can you see these number sentences in the picture below?

$$3 + 2 = 5$$

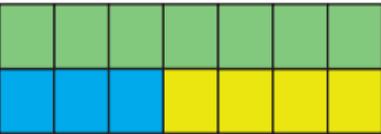
$$2 + 3 = 5$$

$$5 - 3 = 2$$

$$5 - 2 = 3$$

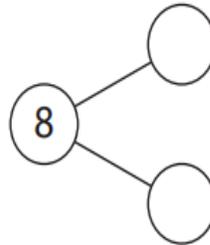


Now write the four number sentences for the picture below:



Draw a bar model for $7 + 2 = 9$ and write four number sentences.

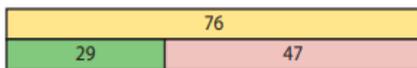
Complete and write the number sentences using this model.



Year 2

Mastery

Pupils use a bar model to explore addition and subtraction facts and the relationship between them.



Using the bar model complete the four number sentences.

$$\square + \square =$$

$$\square + \square =$$

$$\square - \square =$$

$$\square - \square =$$

Mastery with Greater Depth

Fill in the missing numbers. What do you notice?

27	
15	?

12	15
?	

37	
15	?

23	14
?	

13	14
?	

57	
15	?

Year 3

Mastery	Mastery with Greater Depth				
<p>Write the four number facts that this bar model shows.</p> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr style="background-color: #ffff00;"><td colspan="2" style="text-align: center; padding: 2px;">540</td></tr> <tr style="background-color: #90ee90;"><td style="width: 50%; padding: 2px;">300</td><td style="width: 50%; padding: 2px;">240</td></tr> </table> <p> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> </p>	540		300	240	<p>Flo and Jim are answering a problem: Danny has read 62 pages of the class book, Jack has read 43. How many more pages has Danny read than Jack? Flo does the calculation $62 + 43$. Jim does the calculation $62 - 43$. Who is correct?</p> <p>Explain how you know.</p> <p><i>Pupils might demonstrate using a bar model to explain their reasoning.</i></p>
540					
300	240				

Year 4

Mastery	Mastery with Greater Depth																						
<p>Write down the four relationships you can see in the bar model.</p> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr style="background-color: #ffff00;"><td style="width: 50%; padding: 2px;">2300</td><td style="width: 50%; padding: 2px;">1240</td></tr> <tr style="background-color: #ffff00;"><td colspan="2" style="text-align: center; padding: 2px;">3540</td></tr> </table> <p> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> </p>	2300	1240	3540		<p>Identify the missing numbers in these bar models. They are not drawn to scale.</p> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center; padding: 2px;">1000</td></tr> <tr><td style="width: 33%;"></td><td style="width: 33%; text-align: center; padding: 2px;">353</td><td style="width: 33%; text-align: center; padding: 2px;">354</td></tr> </table> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center; padding: 2px;">2000</td></tr> <tr><td style="width: 33%; text-align: center; padding: 2px;">493</td><td style="width: 33%;"></td><td style="width: 33%; text-align: center; padding: 2px;">754</td></tr> </table> <p>Select your own numbers to make this bar model correct.</p> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr><td colspan="3" style="text-align: center; padding: 2px;">5000</td></tr> <tr><td style="width: 33%;"></td><td style="width: 33%;"></td><td style="width: 33%;"></td></tr> </table>	1000				353	354	2000			493		754	5000					
2300	1240																						
3540																							
1000																							
	353	354																					
2000																							
493		754																					
5000																							

Year 5

Mastery	Mastery with Greater Depth				
<p>Write four number facts that this bar diagram shows.</p> <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr style="background-color: #d1c4e9;"><td colspan="2" style="text-align: center; padding: 2px;">9.5</td></tr> <tr style="background-color: #f8bbd0;"><td style="width: 50%; padding: 2px;">3.8</td><td style="width: 50%; padding: 2px;">5.7</td></tr> </table> <p> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> </p>	9.5		3.8	5.7	<p>Use this number sentence to write down three more pairs of decimal numbers that sum to 3: $1.6 + 1.4 = 3$</p>
9.5					
3.8	5.7				

Year 6

Mastery	Mastery with Greater Depth
<p>Calculate $362 + 198$</p> <ul style="list-style-type: none">■ with a formal written column method■ with a mental method, explaining your reasoning.	<p>Jasmine and Kamal have been asked to work out $5748 + 893$ and $5748 - 893$.</p> <p>Jasmine says, '893 is 7 less than 900, and 900 is 100 less than 1000, so I can work out the addition by adding on 1000 and then taking away 100 and then taking away 7.'</p> <p>What answer does Jasmine get, and is she correct?</p> <p>Kamal says, '893 is 7 less than 900, and 900 is 100 less than 1000, so I can work out the subtraction by taking away 1000 and then taking away 100 and then taking away 7.'</p> <p>What answer does Kamal get, and is he correct?</p> <p>If you disagree with either Jasmine or Kamal, can you correct their reasoning?</p>

