Maths Masterclass

Year 5: Summer 1

We hope you are enjoying our Maths Newsletters and find them useful. This is an opportunity for you to see the strategies we use to teach Maths in the classroom, alongside some online resources and activities for your child to try at home. We hope this helps with supporting your child and celebrating their successes.

Number and place value

At the beginning of this half term, we will be focusing on number and place value. We will first look at Roman numerals. We will aim to read Roman numerals to 1000 and recognize years written in Roman numerals. We will then use all of our place value knowledge from year 5 to solve number and practical problems. Below are some examples of how we will learn Roman numerals:

I	V	X	L	C	D	M
1	5	10	50	100	500	1000

In your small groups, can you work out these numbers?

VIII	5 + 3 = 8	XIV	10 + (5 -1) = 14	XCII	(100 -10) + 1 + 1 = 92
XCV		XL		CDXV	
XXXIX		XXIV		CM	
DXL		DCC		MM	

Can we match these together?

How do we write the missing ones?

147	CCCXCIX
380	CXLVII
501	CCCLVI
356	
725	CDL
603	
450	CCCLXXX
399	DCIII

Addition and subtraction

After number and place value, we will be doing addition and subtraction. We will recap using mental strategies to add and subtract with increasingly large numbers. We will then revisit our learning of inverse calculations, with missing numbers in the questions. Finally, we will consolidate solving multi-step problems, unpicking which methods to use and why, focusing on efficiency. Here are some examples of multi-step questions we will practise.

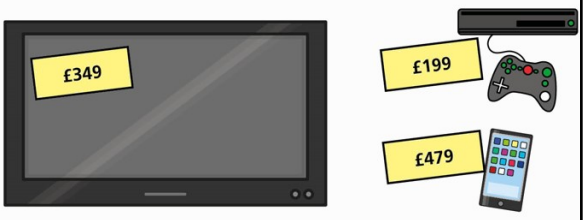
Let's look at this one together:

Sophie's nan drives a bus. Last week, she drove:
- *574 miles on Monday*
- *368 miles on Tuesday*
- *189 miles less on Wednesday than on Tuesday.*

This week, she drove 1,311 miles in total.

What is the difference in mileage between this week and last week?

Mo has £1,000 to spend. He buys a TV and a games console.



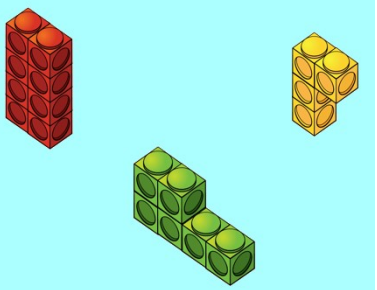
Does Mo have enough money left to buy the phone? _____

Show your workings.

Measure

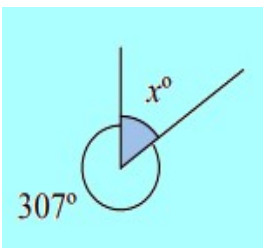
For measure, we are going to estimate volume and capacity. We are going to explicitly link this to our learning of cube numbers. We will then use all four operations to solve problems involving measure.

What is the volume of each 3-D shape?

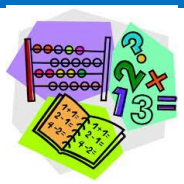


Geometry

For geometry, we will identify angles at a point and one whole turn, angles at a point on a straight line and half a turn and other multiples of 90 degrees.



Maths at Home



Maths website to support parents and maths problem solving at home

Nrich has a range of maths games, problems and articles on all areas of maths. Parents can select either 'Stage 1' or 'Stage 2' to support and consolidate mathematical concepts. These usually tie in with the Key Stage of your child.
https://nrich.maths.org/frontpage
Each problem has a difficulty rating with 3 stars being the hardest.

Raising the profile of Maths

A good understanding of everyday maths will help your child with the important tasks such as making decisions and understanding information. It will also help them develop lifelong skills. You could play maths related games to help engage your child from home. For example, there are so many 'undercover' maths games that can help your child learn and practise a range of basic skills such as Monopoly, Dominoes, Four in a Row, Scrabble and general card games.

Please try to spend 10-15 minutes practising times tables as often as possible to support fluency. Fast recall of times tables really helps children when they solve problems and do more complex maths!

Homework

Children will be set a weekly homework on the MyMaths site. It can be accessed on tablets, laptops and phones. If your child has difficulty logging in or needs more support, please contact your child's teacher.