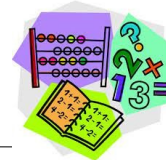




Maths Masterclass



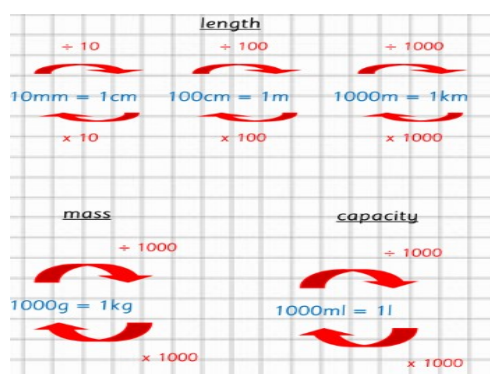
Year 6: Summer 2

Alongside the half-termly curriculum information, we now send out our Maths Masterclass newsletter to give you additional information about your child's learning. This is intended to give you insight into the way we teach maths, which we hope makes it easier to support your child with their learning at home. We will give you suggestions of various activities to try and questions to ask with your child, which we hope you find useful.

As the children have now finished their SATs test, we will be looking at areas that will help prepare them for secondary school, plus the chance to apply their maths knowledge through problem solving and projects as well as looking at a few areas that the children have asked for more time on.

Measures

We will be recapping converting of measures this term. Ensuring your child is confident in multiplying and dividing by 10, 100 and 1000 will help with this. We will be focussing on capacity and volume as well as solving problems involving converting of measures.



Algebra

We will be developing our work on algebra by looking at solving equations using algebra. This will also include looking at expressing missing number problems algebraically and find pairs of numbers that satisfy an equation with two unknowns .

a) $8x + 8 = 2x + 62$

b) $7x + 3 = x + 33$

c) $6x + 5 = 3x + 17$

d) $7x + 7 = 3x + 7$

Timetables

Reading a timetable will be a vital skill as children move onto secondary school to help them understand when their lessons are. We will also look at reading and interpreting timetables when used for bus and train times.

Some train times between Newcastle and Edinburgh	
Leaves Newcastle	Arrives Edinburgh
12:39	14:13
12:54	14:21
13:35	15:09
13:45	15:16
13:52	15:19
14:21	15:47
14:43	16:15
14:55	16:22

Days Time	Mon	Tue	Wed	Thu	Fri
1 8:00 9:00	English	Math	Sport	Biology	Art
2 9:05 10:05	Biology	English	Math	Geographic	Physics
3 10:10 11:10	Sport	Chemi	Art	Physics	Biology
4 11:15 12:15	Biology	Geographic	Physics	English	Math
5 12:20 1:20	English	Physics	Biology	Sport	Art
6 1:25 2:25	Physics	Geographic	Sport	Biology	Math



Maths Masterclass

Ideas to try at home

Problem solving game 1: the 24 game

This maths game is a great problem solving and 'low floor, high ceiling game', as players search for a solution. They can use only the basic calculations to reach the target number, or they can utilise much more complex mathematical calculations.

What you will need to play:

2 or more players and a pack of cards (number cards only)

How to play:

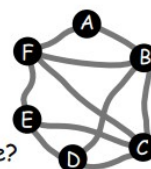
- Shuffle the pack of cards and lay face down on the table.
- Each player picks a card and turns it face up on the table, until there are 4 cards displayed.
- The aim of the game is to make '24' using only the cards on the table and any of the 4 operations.
- For example, if they have a 6, 10, 2 and 6, the solution could be very simple, such as basic addition: $6 + 10 + 2 + 6 = 24$
- Older children may include more complex operations involving brackets, for example, they may have 9, 5, 6 and 9 and solve it by $5 - (9 \div 9) \times 6 = 24$.
- If nobody is able to reach 24, the player who is the closest wins.

Family challenge

Bus routes



Six towns are connected by bus routes.
The bus goes from A back to A.
It visits each of the other towns once.
How many different bus routes are there?



This table shows the bus fare for each direct route.
B to A costs the same as A to B, and so on.

A to B	B to C	C to D	D to E	E to F	F to A	B to D	B to F	C to E	C to F
£4	£3	£4	£4	£3	£4	£5	£3	£2	£2

Which round trip from A to A is the cheapest?