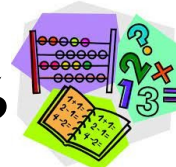




# Maths Masterclass



Year 6: Summer 2

Alongside the half-termly curriculum information, our Maths Masterclass newsletter gives 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.

## Problem solving—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:  $6 + 10 + 2 + 6 = 24$
- If nobody is able to reach 24, the player who is the closest wins.

## Algebra

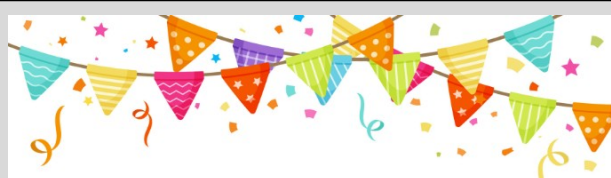
We will be developing our work on algebra by looking at solving equations using algebra. This will also include looking at expressing missing number problems algebraically and find pairs of numbers that satisfy an equation with two unknowns.

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

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

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

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

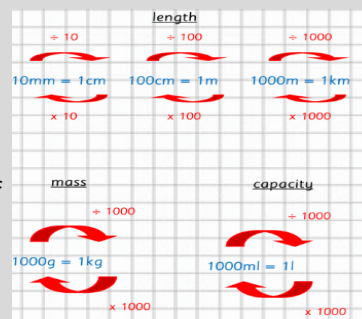


As the children have now finished their SATs test, we will be looking at areas that will help prepare them for secondary school. Part of this will include giving them the chance to apply their maths knowledge through problem solving and projects as well as looking at a few areas that the children have 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.



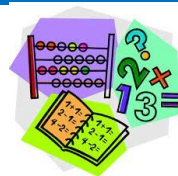
## Timetables

Reading a timetable will be a vital skill as the children move onto secondary school. This will help them to understand when and where their lessons are. We will also look at reading and interpreting timetables when needed for buses or trains.

| Day/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   | Chem       | 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 at Home



## Ideas to try at home

The children are getting so much older and achieving so much!

Can the children figure out:

Their exact age in years, weeks and days?

How old they are in just years?

How old they are in just weeks?

How old they are in just days?



## Family challenge!

### Bus routes

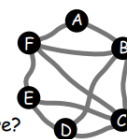


Six towns are connected by bus routes.

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?

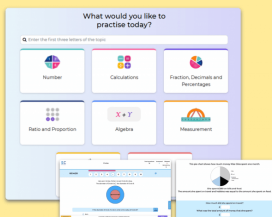


Please try to spend 10-15 minutes practising times tables as often as possible to support fluency. Fast recall of times tables really helps children when they solve problems and do more complex maths!

## Homework

SATs companion can be accessed on tablets, laptops and phones. If your

child has difficulty logging in or needs more support, please contact ask your child's teacher.



This website can also be used to watch any videos based on many topic areas. Your child does they can log on at any time and watch if they are finding a particular area tricky.

not need to wait for this to be allocated-

## Countdown challenge!



|    |   |   |   |   |   |
|----|---|---|---|---|---|
| 25 | 5 | 7 | 6 | 1 | 8 |
|----|---|---|---|---|---|

Can you make the target number using only these number cards? You can only use them once but you can use any operation!