



Maths Masterclass



Year 6: Autumn 1

We hope you are enjoying our Maths Newsletters. We have included the strategies that we use for teaching maths in class, alongside some online resources and activities for your child to try at home. We hope this helps with supporting your child at home and celebrating their success.

Place Value

This term the children will be working on reading, writing, ordering and comparing numbers up to 10, 000, 000 and determining the value of each digit.

8,504,297
2 represents: <input type="text"/>
4 represents: <input type="text"/>
7 represents: <input type="text"/>
8 represents: <input type="text"/>
9 represents: <input type="text"/>
5 represents: <input type="text"/>

We will also be looking at rounding any whole number to a required degree of accuracy.



Four operations

During our work on the four operations we will be using the formal methods to solve multi-step problems.

These methods can be found on the school website:

[Home](#) » [About Us](#) » [Curriculum](#) » [Maths Calculation Policy](#)

We will also look at how to identify common factors, common multiples and prime numbers and investigating patterns with these numbers. This is a good chance to ensure your child is secure in their times tables. Remind them of Times Tables Rock

Stars which they can use to improve their multiplication knowledge, which is particularly beneficial to the children with their arithmetic and fraction work.

Area and perimeter

We will be learning about area and perimeter and using formula to work this out as well as volume.

Fantastic Formulas!

Perimeter: measurement of the distance around an object

5 in. 5 in. 5 in.

$p = s + s + s + s$
 $p = 5 + 5 + 5 + 5$
 $p = 20 \text{ in.}$

Area: measurement of 2D space inside an object

2 units 3 units

$a = l \times w$
 $a = 3 \times 2$
 $a = 6 \text{ units}^2$

Volume: measurement of 3D space inside an object

4 meters 3 meters 2 meters

$v = l \times w \times h$
 $v = 3 \times 2 \times 4$
 $v = 24 \text{ meters}^3$

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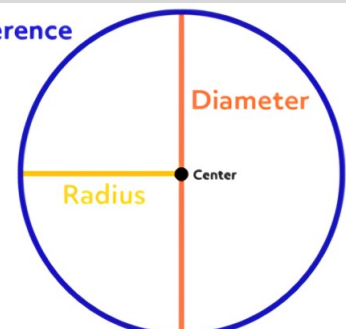
Geometry

We will be comparing and classifying geometric shapes based on their properties.

We will also be looking to recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

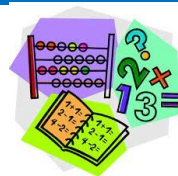
As well as angles we will be looking at parts of a circle.

Circumference





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. Whilst you are at home you could play maths related games to help engage your child. 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 SATS companion website- log in details to follow.

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.

