

At Higher Failsworth we believe that maths is essential to everyday life and a key skill that all children should master. We understand that having a high quality maths education can help to underpin a variety of life skills; therefore we aim to give children the best start in their maths education as possible along with creating both an understanding and a love for the subject.

Following the guidance of the new maths curriculum we aim to ensure that all children:

- Are fluent in the basics of maths. This is achieved through the frequent practice of key ideas whilst increasing the complexity and varying the style of problem. By doing this the children develop a conceptual understanding of maths along with being able to recall knowledge rapidly and accurately.
- Can reason mathematically. By introducing the children to mathematical language we allow them to have the opportunity to justify their thinking and understanding along with having a mathematical discussion to help combat a problem.
- Can solve problems. During lessons we encourage the children to apply their maths knowledge in difference scenarios and situations by breaking down problems. This also allows them to learn how to persevere throughout a task.

The subject of maths is broken down into number, measurement, geometry, statistics, algebra, ratio and proportion. These subjects are taught discretely over the course of the year with teachers aiming to link as much of the learning as possible to ensure it is mastered by all children.

In order to support their understanding children will also take part in a range of problem solving lessons to apply their knowledge.

- Finding all possibilities – children will need to experiment with information to find as many ways as possible to find a solution.
- Logic puzzles – children will need to decide on an order they will follow to answer a question and organise their ideas.
- Finding rules and describing patterns – children will be given information where they need to identify any patterns or relationships.
- Diagram problems and visual puzzles – children will be given images to work with and will need to label and organise their ideas.
- Word problems – children will need to read a question and extract information to gain an answer.

In foundation stage the children are introduced to maths homework and pieces will be sent home at times when a skill or understanding needs consolidating.

In Key Stage 1 the children are first given a piece of maths homework every fortnight which changes to once every week halfway through Year 1.

In Key stage 2 the children will be sent home with a piece of maths homework each week that will consolidate their learning and provide the class teacher with a form of assessment.

Alongside the homework it is extremely important that children learn their timetables in fun and interactive ways. It is also beneficial to the children if they have a concept of telling the time which can be practiced daily at home.

Below are some useful links to online maths games that children can participate in at home and may use at school but please make sure children are supervised at all times when using the internet.

<https://uk.ixl.com/math/>

<http://www.adamup.co.uk/>

<http://www.topmarks.co.uk/maths-games/5-7-years/counting>

<http://resources.woodlands-junior.kent.sch.uk/maths/>

<http://www.bbc.co.uk/bitesize/ks1/maths/>

<http://www.bbc.co.uk/bitesize/ks2/maths/>

<http://www.mathplayground.com/>

<http://www.ictgames.com/resources.html>

<http://www.coolmath-games.com/>