

## How Can you Help?

Maths is everywhere in the real world and children need to be able to understand and explain its practical uses. Encourage them to:

- Read the numbers around them, on car number plates etc.
- Play games such as cards or dice rolling.
- Find opportunities to count aloud or sing counting songs (e.g. ten green bottles).
- Find totals from prices in shops.
- Work out the change from your shopping.
- Weigh & measure ingredients in the kitchen.
- Tell the time on both digital and analogue clocks & watches.
- Read train and bus timetables and try to interpret them.
- Learn their multiplication tables by heart. Children are expected to know all of their tables by heart by the time they are in Year 5.
- Children in KS1 are expected to learn the numbers that add up to 10 by heart.

## Useful Websites

[nrich.maths.org](http://nrich.maths.org)  
[uk.mathletics.com](http://uk.mathletics.com)  
[bbc.co.uk/schools/ks1bitesize/numeracy](http://bbc.co.uk/schools/ks1bitesize/numeracy)  
[bbc.co.uk/schools/ks2bitesize/maths](http://bbc.co.uk/schools/ks2bitesize/maths)



## Times Tables at Viridis

Times Tables are at the heart of mental arithmetic, which in itself helps form the basis of a child's understanding and ability when working with number. Once the children have learnt their times tables by heart, they are then able to work far more confidently – and efficiently – through a wide range of more advanced calculations.

At Viridis, we believe that through a variety of interactive, visual, engaging and rote learning techniques, most children can achieve the full times table knowledge by the time they enter Year 5.

**In Reception:** I can count in steps of 2, 5 and 10

**In Year 1:** I know my 2, 5 and 10 times tables

**In Year 2:** I know my 3, 4 and 6 times tables

**In Year 3:** I know my 8, 9 and 11 times tables

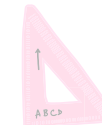
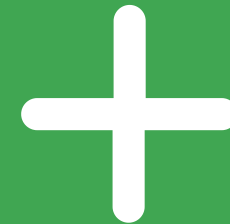
**In Year 4:** I know 7, 9 and 12 times table

**In Year 5 and 6:** Regular consolidation of all times tables.

By Year 4, children should know all their times tables by heart and be able to recall these in and out of order.

The times table check will be completed by all children in Year 4 in June. This is a national check to assess pupil competency across the country.

# Maths



## How is Maths Taught at Viridis?

Children are taught to be confident in every area of mathematics. They will develop and extend their problem solving capabilities through a wide variety of mathematical contexts.

The maths curriculum contains three main elements: Fluency, Reasoning and Problem Solving.

Fluency looks at the fundamental calculations that children need to be able to perform, for example: how to calculate  $34 \times 7$  or to find  $\frac{1}{3}$  of 360.

Once children are fluent with the calculation process, they are then taught to reason about the maths they are completing, for example: justifying why an answer is right or wrong, or to explain why something occurs.

Finally, children are encourage to problem solve, taking all their knowledge and understanding of a mathematical concept and explore the ideas systematically, developing their ability to persevere making them resilient and learners.



## Making Maths Fun

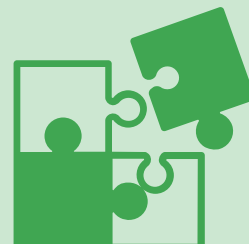
We aim to engage children as much as possible in Maths, by making it fun and practical. One of the tools we use is Mathletics, which is an online learning platform where they can play games and challenge their friends online. Timestable Rockstars is also a vital on line resource for improving the speed and accuracy of your child's timestable recall!

## Our Curriculum

In Key stage 1, there is a big focus on developing basic number skills. That means securing a good understanding of place value and then applying this in basic calculation.

In Key Stage 2, children master the 4 operations (addition, subtraction, multiplication and division) improving mental calculation and developing written methods.

In both key stages, children learn about measures, data handling and statistics and apply this knowledge in context.



## Calculation Policy

Our calculation policy has been written in line with the programmes of study taken from the revised National Curriculum for Mathematics (2014). It provides guidance on appropriate calculation methods and progression. The content is set out in year groups under the following headings: addition and subtraction, multiplication and division.

The end of year expectations taken from the programmes of study are listed in bold at the beginning of each section.

## Homework

Viridis has a homework policy which aims to improve educational standard through both home and school. It aims to develop the concept that learning is a whole life experience and not just confined to school. Parents are therefore actively encouraged to be involved in their children's education through the homework they receive every week. In the meantime, here are a few tips:

- Read through the questions slowly underlining important parts
- Use a ruler or tape measure as a number line or draw one on a piece of paper to count along.
- Sketch out ideas in any way that is comfortable on another piece of paper.
- Encourage your child to explain what they think the work is about and what they can remember from their lessons that week.
- See the websites listed on the back page. There is also an extended and up to date list of useful maths websites available.