

“Pure mathematics is, in its way, the poetry of logical ideas.”

Albert Einstein



Maths Newsletter

Welcome to Elvington's first termly Maths Newsletter—a place to celebrate and share the success of maths in our school!

At Elvington, we strive towards shaping able and confident mathematicians who are well equipped to use maths in their everyday life. We aim to provide pupils with a secure understanding in all areas of maths: place value, the four operations, algebra, fractions, geometry, measurement and statistics. Within every area of maths, we ensure that all children are fluent, can reason mathematically and solve problems.

Problem Solving Challenges – answers in the next maths newsletter...

KS1 challenge

Which pins must Joshua knock down to score exactly 5?

Find two different ways to score_

A) 5
B) 6
C) 7

KS2 challenge

Take five coins: 1p, 2p, 5p, 10p, 20p.
Put them in a row using these clues:
• The total of the first three coins is 27p.
• The total of the last three coins is 31p.
• The last coin is double the value of the first coin.



Featured Mathematician

Ada Lovelace was a leading 19th century mathematician and daughter of the famous poet Lord Byron. She was born on 10th December 1815.

Her mother, Annabella Milbanke, insisted that Ada was taught logic, science and mathematics from a young age - which was rare for women at the time. From childhood Ada had a fascination with machines.



Lovelace studied the plans for the Analytical Engine and wrote lots of her own comments about how the machine could work - which have been described as early computer programmes.

She described how codes could be created for the device to handle letters and symbols along with numbers. She also created a method for the engine to repeat a series of instructions, a process known as 'looping' that computer programmes still use today.

Lovelace died on 27th November 1852 at just 36 and her contributions to the field of computer science were not discovered until well after her death.

Her passion for mathematics and early computer engineering have made her a symbol for modern women in technology.

Challenge – can you design a poster celebrating Ada Lovelace's achievements?

Current Teaching Methods

Some areas of the maths curriculum are taught differently today to how most adults were taught at school. We know that lots of parents and carers find it helpful to understand how their children are taught, so please formalise with our calculations policy: www.elvingtonprimary.org.uk/wp-content/uploads/2014/02/Calculation-Policy-Elvington-CEP.pdf

The single most important thing parents and carers can do for children is to have a positive attitude towards maths.

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Maths around the Home

There are multiple opportunities to interact with numbers, and help your child feel positive about maths. Use these tips and ideas to immerse your family in mathematics...

Talk about time - work out what time you need to leave the house to get to school on time.

Cooking - measure ingredients and set the timer together. Work out how much more food will you need if extra people are coming for dinner.

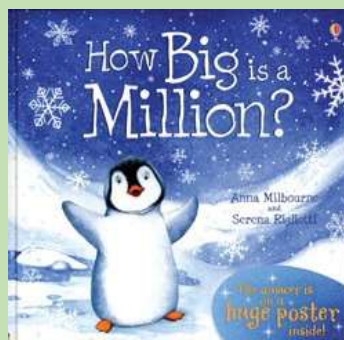
Talk about the shape and size of objects - look online for interesting facts, like tallest and shortest people, or biggest and smallest buildings etc.



Baking Conversion Chart

Recommendations for Mathematical Stories

Pipkin, the smallest penguin, is always asking questions but what he wants to know most of all is how big is a million? So he sets off to find out and along the way meets a hundred penguins, sees a thousand snowflakes and meets one new friend before being amazed to finally find out how big a million really is. A special fold-out poster at the end of the book shows Pipkin looking at the sky, which is printed with exactly one million stars.



For more mathematical book suggestions, please visit -

www.mathsthroughstories.org/recommendations.html

Here is our list of the top ten free maths homework websites and apps suitable for children and parents/carers:

- TT Rockstars (competitive times tables)
<https://play.ttrockstars.com/auth/school/student/17541>
- UR Brainy (Multiplication Times Table Check)
<https://urbrainy.com/mtc/test>
- Third Space Learning Maths Hub (resources from maths experts)
<https://mathshub.thirdspacelearning.com/>
- BBC Bitesize – KS1 & 2 Maths (everything)
www.bbc.co.uk/bitesize/subjects/z826n39
- Primary Games Arena (games)
<https://primarygamesarena.com/>
- Hit the Button (times tables and number bonds)
www.topmarks.co.uk/maths-games/hit-the-button
- Math is Fun (worksheets)
www.mathsisfun.com
- NRich (problem solving and challenge questions)
<https://nrich.maths.org/primary>
- Maths Zone (portal to lots of maths games and quizzes)
<https://mathszone.co.uk/>
- Ashcott Primary School (videos from pupils for parents)
www.ashcott.somerset.sch.uk/classes/maths-homework/homework

Thank you for your continued support, please remember that education is most effective when all parts are working together...

