Loughton Curriculum: Mathematicians

Spring 2025

Welcome!

Welcome to the latest edition of our curriculum newsletters - Loughton Mathematicians! This term, our children have been (or soon will be) applying their mathematics skills in exciting STEM projects - Year 3 are designing royal carriages, Year 4 are building catapults, Year 5 are creating electronic vehicles and Year 6 are delving into computer programming.

Our recent assessments have shown that while children have a strong understanding of place value, gaps in times table knowledge are impacting their grasp of key concepts like fractions. By the end of Year 2, children should know their 2, 5 and 10 times tables, followed by 3, 4 and 8 in Year 3, and 6, 7, 9, 11 and 12 in Year 4.

We can't emphasise enough how valuable TT Rockstars is for practising times tables, especially in Garage mode, where children receive a personalised set of six multiplication questions to improve recall.

Just a reminder that on our website, you can find the curriculum overview for each year group, outlining what your child is learning. There are also 'How To' guides for formal written methods to support learning at home. Children often need time to practise these methods to truly master them, so any extra support at home is greatly beneficial.

Thank you for your continued support - The Loughton Maths Team!

Upcoming learning

Year 3
Length and Perimeter
Fractions
Mass
Capacity

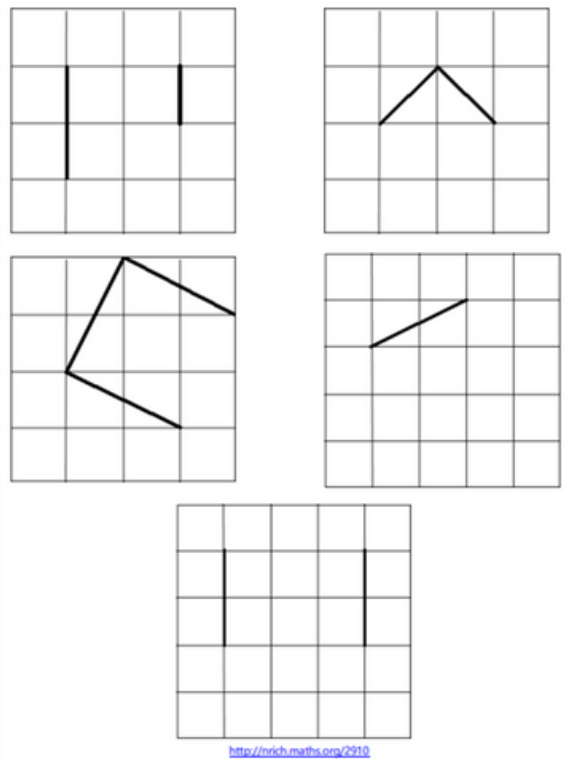
Year 4
Fractions
Decimals
Times table fact recall

Year 5
Decimals and percentages
Perimeter and area
Graphs and tables

Year 6
Percentages
Perimeter and area
Statistics
Property of shapes

You can find the whole yearly overviews here.

Problem solving - Can you complete the square?



Embedding learning for long-term memory

As a staff team, we've been exploring ways to help children retain knowledge rather than forget it. The image to the left shows how quickly learning fades without regular practice.

To reinforce this, children need frequent opportunities to retrieve and apply their learning. Check out the recommended websites on the next page to support practice at home and strengthen their understanding.

Famous mathematicians

What Maryam did: Iranian-born Maryam Mirzakhani was one of the greatest mathematicians of her generation, making exceptional contributions to the study of the dynamics and geometry of mathematical objects called Riemann surfaces.
She was a professor at Stanford University and held a Ph.D from Harvard University. In 2014, she was the first woman, and first Iranian, to be awarded a Fields Medal (also known as the International Medal for Outstanding Discoveries in Mathematics) for "her outstanding contributions to the dynamics and geometry of Riemann surfaces and their moduli spaces".

Maryam's impact: Her work had a huge impact in shaping her field and has opened up new frontiers of research that are just starting to be explored. She shows us that, even in a male-dominated field, women can be role models and lead the way forward with their discoveries.

@ThirdSpace

Maryam Mirzakhani

Useful Maths websites

TT Rockstars

Primary Games Arena

Top Marks

Maths Zone

Which one doesn't belong

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