

The maths Department aims to nurture a curiosity in maths that excites every child in a way that enables them to fulfil their potential.

We want all pupils at Lammas School to experience the beauty, power and enjoyment of mathematics and develop a sense of curiosity about the subject with a clear understanding. At Lammas we foster positive can-do attitudes and we promote the fact that 'We can all do maths!' We know all children can achieve in mathematics and teach for secure and deep understanding of mathematical concepts through manageable steps. We provide challenge through rich and sophisticated problems and use mistakes and misconceptions as an essential part of learning.

We aim for all pupils to:

- have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics
- be able to solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios
- reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.

## **TLS Mathematics Curriculum**

-Mathematical modelling

Engineering, Aviation, Applied Science

Alevels, Maths/Further Maths

University

Business Accountancy and Finance

Computer game coding

-Understand that a mathematical model can be refined by considering -Understand and use modelling -Translate a situation into a mathematical model, making simplifying assumptions

## -Mathematical problem solving

-Construct extended arguments unstructured form diagrams to solve problems, including in mechanics -Interpret and communicate

## MATHS MATHEMA

-Mathematical Argument, Language and Proof mathematical arguments -Understand and use language and symbols associated with set theory -Understand and use mathematical language and



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-Bivariate data



-Mathematical modelling Understand that a mathematical model can be refined by considering -Understand and use modelling assumptions mathematical model, making simplifying assumptions



Wisdom | Courage | Leadership

-Accuracy and

estimation

-Ratio and

Percentages

-Transforming 2-D figures

-Expressions, equations

and inequalities.