LEARNING LIGHTHOUSE
Rooted in TRADITION, Built for TODAY.

MATHEMATICS

Upper Key Stage 2 · Years 5–6 · Ages 9–11

ENGLISH NATIONAL CURRICULUM | TWO-YEAR ROLLING PROGRAMME

At Learning Lighthouse, our Years 5–6 Mathematics programme develops mathematical fluency, reasoning and confidence through structured teaching and real-world problem-solving. Children share broad lesson themes, while Year 5 and Year 6 expectations and practice tasks are carefully differentiated.

How our rolling curriculum works

Our combined Years 5–6 class follows Rolling Years A and B. Children can join in either cycle and continue into the next academic year without repeating the same lesson sequence. Essential skills are revisited so learning progresses, while age-appropriate objectives ensure each pupil develops the knowledge expected of their individual year group.

Rolling Year A

AUTUMN TERM | Large Numbers, Number Properties and Calculation

Pupils develop confidence with large whole numbers, place value, rounding and negative numbers, alongside formal and mental methods of calculation. They investigate prime numbers, factors and multiples, and solve increasingly complex multi-step problems. Year 5 and Year 6 learners share the topic but use different number ranges, written methods and challenge levels.

Learning objectives: Read, order and round numbers at an appropriate level; use formal methods for the four operations; investigate factors, multiples and numerical patterns; and justify efficient strategies.

SPRING TERM | Fractions, Decimals and Percentages

Children explore equivalent fractions, mixed numbers and improper fractions, then extend their understanding through fraction calculations. Decimals and percentages are connected to fractions through models and practical applications, including measurement and problem-solving.

Learning objectives: Compare and calculate with fractions; recognise connections between fractions, decimals and percentages; use accurate decimal notation; and solve proportional numerical problems at each year level.

SUMMER TERM | Measurement, Geometry and Statistics

Pupils measure, calculate and investigate perimeter, area, volume, angles and properties of shapes. They learn to interpret coordinates and transformations, explore graphs and statistical information, and apply mathematics to practical design and measurement challenges.

Learning objectives: Convert and apply measurement units; calculate perimeter, area and volume with age-appropriate methods; describe shapes and angles; use coordinates and transformations; and interpret mathematical data.

Rolling Year B

AUTUMN TERM | Number Reasoning and Advanced Arithmetic

Using new practical contexts and investigations, pupils strengthen place value and number properties while exploring increasingly demanding arithmetic. They develop confidence in multiplication and division, estimation, the order of operations and solving multi-step problems.

Learning objectives: Explain number patterns and properties; select efficient methods for calculating; apply written multiplication and division at the appropriate level; and check and justify solutions.

SPRING TERM | Fractions, Ratio, Proportion and Algebra

Pupils revisit fractions, decimals and percentages through fresh investigations. Older pupils extend this knowledge into the Year 6 requirements for ratio and proportion, simple algebra, equations and formulae, while Year 5 children build strong foundations through scaling, fractions and missing-number problems.

Learning objectives: Use fraction and percentage relationships; solve age-appropriate scaling and proportional problems; recognise sequences; and apply simple algebraic reasoning with differentiated Year 5 and Year 6 outcomes.

SUMMER TERM | Geometry, Measurement, Data and Applied Mathematics

Children explore shapes, angles, coordinates, transformations, measures and real-world calculations. They collect and interpret data using tables and graphs, developing statistical reasoning and applying knowledge to extended problem-solving tasks.

Learning objectives: Reason about shapes and position; calculate and convert measures; read and construct appropriate statistical representations; and solve multi-step problems using mathematical evidence.

Our approach to teaching Mathematics

Monday and Wednesday lessons combine teacher explanation, supported examples, problem-solving and independent practice. Differentiated tasks build Year 5 foundations and Year 6 readiness, including preparation for secondary mathematics. Regular practice between sessions is recommended, and families may book individual lessons or a complete sequence.