Nayland School

Mathematics

End of Year 6 Expectations

In order to meet the expected standard, children in Year 6 must be able to demonstrate consistent and independent use of most of these skills.

Number/Calculation

- Secure understanding of place value and rounding in numbers up to 10,000,000
- Use negative numbers in context
- Use formal written methods for multiplication, division, addition and subtraction
- Identify common factors, common multiples, primes and prime factors
- Solve multi-step number problems
- Use cube numbers

Algebra

- Use and write simple formulae
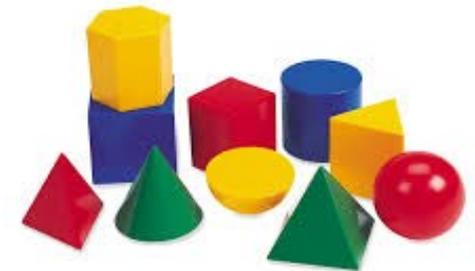- Solve simple equations

Fractions & decimals

- Compare and order fractions, including mixed numbers
- Add and subtract fractions with different denominators including mixed number fractions
- Multiply pairs of proper fractions
- Divide fractions by integers
- Recall and use decimal fraction equivalents
- Multiply whole numbers by fractions and % and numbers with two decimal places
- Solve problems using percentages

Geometry & Measures

- Classify shapes by their properties
- Find unknown angles within 2D shapes
- Illustrate and name the parts of a circle
- Translate and reflect shapes, using all four quadrants
- Use, read, write and convert standard measures including using decimal notation to three decimal places
- Use formulae for area and volume of shapes
- Convert between miles and kilometres

Statistics

- Solve problems using line graphs
- Interpret timetables
- Read and interpret pie charts

Ratio and Proportion

- Solve problems using ratio and proportion
- Find and use the scale factor of similar shapes