

END OF YEAR EXPECTATIONS

Information for Parents

This booklet provides information for parents and carers on the end of year expectations for children in Year 6 in our school. The National Curriculum outlines these expectations as being the minimum requirements your child must meet in order to ensure continued progress.

All the objectives will be worked on throughout the year and will be the focus of direct teaching. Any extra support you can provide in helping your children to achieve these is greatly valued.

If you have any queries regarding the content of this booklet or want support in knowing how best to help your child please talk to your child's teacher.

Successful Learners

Confident Individuals

Effective Contributors

Responsible Citizens

YEAR 6 - MATHS



THINK MATHS

Maths

By the end of Year 5 your child is expected to be competent in following areas:

Number - Number and Place Value

Children will be taught to:

- •read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
- ·round any whole number to a required degree of accuracy
- ·use negative numbers in context, and calculate intervals across 0
- · solve number and practical problems that involve all of the above

Number - Addition, Subtraction, Multiplication and Division

Children will be taught to:

- multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
- divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
- · divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
- perform mental calculations, including with mixed operations and large numbers
- ·identify common factors, common multiples and prime numbers
- use their knowledge of the order of operations to carry out calculations involving the 4 operations
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- ·solve problems involving addition, subtraction, multiplication and division
- use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Children will be taught to:

Algebra



- ·use simple formulae
- ·generate and describe linear number sequences
- ·express missing number problems algebraically
- ·find pairs of numbers that satisfy an equation with 2 unknowns
- enumerate possibilities of combinations of 2 variables







Number - Fractions

Children will be taught to:

(including decimals and percentages)

- · use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- ·compare and order fractions, including fractions >1
- add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- \cdot multiply simple pairs of proper fractions, writing the answer in its simplest form

[for example, $1/4 \times 1/2 = 1/8$]

- divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]
- •associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]
- identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places
- ·multiply one-digit numbers with up to 2 decimal places by whole numbers
- ·use written division methods in cases where the answer has up to 2 decimal places
- · solve problems which require answers to be rounded to specified degrees of accuracy
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts



Measurement

Children will be taught to:

- solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate
- use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places
- · convert between miles and kilometres
- ·recognise that shapes with the same areas can have different perimeters and vice versa
- ·recognise when it is possible to use formulae for area and volume of shapes
- · calculate the area of parallelograms and triangles
- calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]









Ratio and Proportion

Children will be taught to:

- •solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
- solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison
- ·solve problems involving similar shapes where the scale factor is known or can be found
- ·solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Children will be taught to:

Geometry - Properties of Shape

- · draw 2-D shapes using given dimensions and angles
- · recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Geometry - Position and Direction

Children will be taught to:

- · describe positions on the full coordinate grid (all 4 quadrants)
- · draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Children will be taught to:

Statistics

- interpret and construct pie charts and line graphs and use these to solve problems
- · calculate and interpret the mean as an average