



Mount Pleasant Primary School
Believe it! Achieve it!



**Supporting Your Child
With The New
Mathematics Curriculum**

Aims of session

- ▶ To provide an overview of the National Curriculum for Mathematics for Years 3, 4, 5 and 6
- ▶ To explain changes to curriculum content for Years 3, 4, 5 and 6
- ▶ To raise awareness of what mathematics resources are available, to support your child's learning
- ▶ To enable you to feel more confident about supporting your child with mathematics at home

The New National Curriculum Expectations

“The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. ***Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content.***”

The New National Curriculum

Aims

To ensure that children

- ▶ become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to **recall** and **apply** knowledge rapidly and accurately
- ▶ **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- ▶ can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and **persevering** in seeking solutions

The New National Curriculum

Overview

- ▶ Children to know by heart their **tables to 12x12**, by the end of **Year 4**.
- ▶ Greater emphasis on standard **written calculation** methods
- ▶ Earlier and more challenging requirement for **fractions, decimals and percentages**.
- ▶ Use of calculators to be restricted until the end of Key Stage 2.
- ▶ Greater emphasis on being able to read, write and use **numbers up to 10 million** in a range of contexts
- ▶ **Roman numerals** have been introduced from Year 3.
- ▶ Increased requirement for pupils to use formulae for **volume** and to calculate the area of shapes other than squares and rectangles.

Changes to Year 3 Curriculum

What's gone?

Rounding to nearest 10/100 moved to Year 4
Reflective symmetry moved to Year 4
Converting between metric units moved to Year 4
No requirement to use Carroll/Venn diagrams

What's been added?

Adding tens or hundreds to three-digit numbers
Standard written methods for addition and subtraction
8 times tables replaces 6 times tables
Counting in tenths
Comparing, ordering, adding and subtracting simple fractions
Identifying angles larger or smaller than a right angle
Identify horizontal, vertical, parallel and perpendicular lines
Tell time to the nearest minute, including 24-hour clock and using Roman numerals
Know the number of seconds in a minute and the number of days in each month, year and leap year

Changes to Year 4 Curriculum

What's gone?

Using mixed numbers moved to Y5

Most ratio work moved to Y6

Written division methods moved to Y5

All calculator skills

Measuring angles in degrees moved to Y5

What's been added?

Know all multiplication facts and related division facts to 12 x 12

Solving problems with fractions and decimals to two decimal places

Rounding decimals to whole numbers

Roman numerals to 100

Recognising equivalent fractions

Knowing equivalent decimals to common fractions

Dividing by 10 and 100 including decimals

Using factor pairs

Translation of shapes

Finding the perimeter and area of compound shapes

Solve time conversion problems

Changes to Year 5 Curriculum

What's gone?

Calculator skills moved to KS3

Probability moves to KS3

Several elements are now expected to be covered in Years 3 and 4 especially linked to fractions, decimals and percentages

What's been added?

Understand, use and solve problems with decimals up to three decimal places

Recognise simple equivalence between fractions, decimals and percentages

Know and use 'special numbers': square and cube numbers, primes up to 20, prime factors, composite numbers, etc.

Use standard multiplication and division methods up to four-digits

Add and subtract fractions with denominators that are multiples of the same number

Multiply proper fractions and mixed numbers by whole numbers

Changes to Year 6 Curriculum

What's gone?

Calculator skills move to KS3

Rotation moves to KS3

Probability moves to KS3

Median/Mode/Range no longer required

What's been added?

Compare and ordering fractions with different denominators

Calculate complex decimal equivalents of fractions

Use standard written methods for all four operation including fractions

Understand and use order of operations

Plot points in all four quadrants

Convert between miles and kilometres

Identify, name and know the relationship between the parts of a circle

Calculating the area, perimeter and volume of 2D and 3D shapes

Algebra: solving problems and expressing missing numbers using letters

Supporting your child at home

- ▶ Little and often is the key to learning number facts
- ▶ Play traditional games: Dominoes, Snakes and Ladders etc. Battleships, Darts, Monopoly, Snooker
- ▶ Encourage your child to use handle money in real life situations
- ▶ Buy your child a watch and let them wear it to school
- ▶ Use online resources and games
- ▶ Cook with your child, show them how to read scales and practise converting metric to imperial measures in a recipe
- ▶ Instant recall of times tables facts is essential in Key Stage 2. Frequent practise at home will keep these skills sharp.

Home Learning

- ▶ Maths Challenge Year 3 - Gold
 Year 4 - Platinum
 Year 5 - Diamond
 Year 6 - Star

<http://www.mount.dudley.sch.uk/parentsupport.htm>

<https://www.mymaths.co.uk/>

Useful websites

- ▶ www.mymaths.co.uk
- ▶ www.interactive-resources.co.uk
- ▶ www.bbc.co.uk/education
- ▶ www.woodlands-junior.kent.sch.uk/maths
- ▶ www.topmarks.co.uk
- ▶ www.educationcity.com