

Aims of this policy

- To help our pupils achieve a high standard in mathematics and gain a secure foundation of knowledge, skills and concepts.
- To provide a curriculum that allows pupils to become fluent in the fundamentals of mathematics, reason mathematically using correct vocabulary and solve problems by applying their skills.
- To support our pupils in developing a positive attitude towards mathematics.
- To follow the guidance set by the DfE: **A high quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.** (National Curriculum for Mathematics, 2013)
- A document, for the school community, to clarify what is taught.

What is Taught?

- EYFS: Maths learning is integrated into children's role play activities; children are encouraged to participate in at least one maths based role play per day. Alternatively, adults will tailor a child's current activity to include learning from the maths curriculum, e.g. through questioning and discussions. There are also whole class carpet sessions each day which last 10-20 minutes. In the spring term, each child will also take part in one focused group activity per week with an adult.
- Year 1: Autumn and spring term - three maths sessions per week in a carousel format. Summer term - five maths sessions per week in a carousel format. Within carousel, teacher leads a guided group session and the other activities are either independent or supported by a teaching assistant.
- Year 2-6: Five discrete lessons of maths are taught every week, each lasting approximately 1 hour, in order to cover the mathematics curriculum.
- From the summer term in year 2 through to the end of year 6, maths is taught in ability sets (core and extension).
- A variety of teaching and learning styles are used in maths lessons to develop knowledge, skills and understanding. This includes whole class, group led and independent learning.
- Pupils experience a range of practical and written activities on number, measurement, geometry and statistics.
- Pupils are taught the skills needed for mental maths, written calculations and problem solving. A calculation booklet is available to staff and parents which demonstrates the progression to the formal written method for each operation.
- Careful planning of key questions promote higher order thinking skills and encourage discussion and mathematical reasoning.
- Children have the opportunity to use a variety of resources such as number lines, number squares, digit cards and Numicon to support their learning.
- Learning opportunities are provided to support and challenge the needs of all pupils in the class and this can be achieved through strategies including: differentiated tasks, open-ended activities and varied resources.
- Accurate mathematical language is modelled and encouraged during lessons.
- A high priority is set on the learning of times tables by the end of year 4 - each pupil has a times table record of achievement booklet to complete. There is a three levelled reward for each times table learnt (bronze, silver and gold).
- Throughout the mathematics curriculum the school's Learning Certainties are addressed, pupils are encouraged to be Enthusiastic, Responsive, Flexible, Resourceful, Inclusive, Resilient, Focused, Independent, Determined, Motivated
- Cross curricular links are made in the teaching of mathematics, for example in science pupils use data handling to present results and in geography through map reading skills.

Assessment

- Pupils will be assessed in line with the school's assessment policy
- Each child's progress is continually assessed to inform day to day planning. This includes through observations in lessons, questioning and marking of written work.
- The majority of learning is recorded in their maths books but also through the use of photos in lessons and, particularly in EYFS, through written evidence of children's discussions.
- Homework (please refer to The Queen's School Homework Policy)

Appendices:

1. Curriculum Overview
2. Resources (school view only)

Appendix 1 Curriculum Overview

Long Term planning – Maths

Please see *Progression Maps* for more detail of each objective

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Number, place value and rounding Measurement Addition and Subtraction	Geometry: properties of shape Geometry: position and direction Number and place value Measurement Addition and Subtraction	Number and place value Measurement Multiplication and division	Number and place value Measurement Addition and Subtraction Geometry: properties of shape Geometry: position and direction	Number and place value Measurement Addition and Subtraction	Number and place value Measurement Multiplication and division Fractions Measurement Geometry: properties of shape Geometry: position and direction
Year 2	Number, place value and rounding Measurement Statistics Addition and Subtraction	Geometry: properties of shape Geometry: position and direction Number and place value Measurement Statistics Addition and subtraction	Number and place value Multiplication and division Statistics Measurement	Number and place value Measurement Addition and Subtraction Statistics Geometry: properties of shape Geometry: position and direction	Number and place value Measurement Statistics Addition and Subtraction	Number and place value Measurement Multiplication and division Fractions Measurement Geometry: properties of shape Geometry: position and direction
Year 3	Number and place value Addition and Subtraction Measurement Statistics	Number and place value Multiplication and division Statistics Geometry: properties of shape Measurement Fractions	Addition and Subtraction Measurement Statistics Number and place value Fractions	Number and place value Measurement Multiplication and division Fractions Geometry: properties of shape Measurement Statistics	Addition and Subtraction Measurement Statistics Number and place value Fractions	Number and place value Measurement Multiplication and division Fractions Measurement Geometry: properties of shape

Long Term planning – Maths

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	Number and place value Addition and Subtraction Measurement Statistics	Number and place value Multiplication and division Geometry: properties of shape	Addition and Subtraction Measurement Statistics Fractions (<i>inc.</i> , decimals)	Number and place value Measurement Multiplication and division Fractions (<i>inc.</i> , decimals) Measurement Geometry: properties of shape Geometry: position and direction Statistics	Addition and Subtraction Measurement Statistics Fractions (<i>inc.</i> , decimals) Measurement	Number and place value Measurement Multiplication and division Fractions (<i>inc.</i> , decimals) Measurement Geometry: properties of shape
Year 5	Number and place value Multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Measurement Addition and Subtraction Statistics	Multiplication and division Measurement Geometry: properties of shape Number and place value Fractions (<i>inc.</i> , decimals and percentages)	Addition and Subtraction Fractions (<i>inc.</i> , decimals and percentages) Measurement Statistics Multiplication and division Fractions (<i>inc.</i> , decimals and percentages)	Multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Measurement Geometry: properties of shape Geometry: position and direction Number and place value	Addition and Subtraction Fractions (<i>inc.</i> , decimals and percentages) Measurement Statistics Multiplication and division Fractions (<i>inc.</i> , decimals and percentages)	Multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Measurement Geometry: properties of shape Geometry: position and direction Measurement
Year 6	Number and place value Fractions (<i>inc.</i> , decimals and percentages) Measurement Addition, subtraction, multiplication and division Algebra Measurement Statistics	Addition, subtraction, multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Ratio and proportion Algebra Measurement Statistics Geometry: properties of shape Number and place value	Number and place value Addition, subtraction, multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Algebra Measurement Statistics	Addition, subtraction, multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Ratio and proportion Algebra Measurement Statistics Geometry: properties of shape Geometry: position and direction	Addition, subtraction, multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Algebra Measurement Statistics	Addition, subtraction, multiplication and division Fractions (<i>inc.</i> , decimals and percentages) Ratio and proportion Algebra Measurement Statistics Geometry: properties of shape Geometry: position and direction