**Maths overview**

**Here at Glenfield Primary School we want our children to become fluent in the fundamentals of Mathematics. We also value the importance of frequent application and reasoning; both of which are key skills for developing a deep and conceptual understanding which will support the children when solving real life Mathematical problems. We hope to promote a love of Maths within our school and nurture a deep interest in the subject which the children will take with them throughout their education and future learning.**

**Lower key stage 2**

Years 3 and 4 (lower Key Stage 2) share the same curriculum targets.

In lower Key Stage 2, the main focus of maths teaching is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers.

At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Pupils will also draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can accurately use measuring instruments and make connections between measure and number.

By the end of Year 4, pupils should have memorised their times tables up to and including the 12 times table, and they will show precision and fluency in their work. Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

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|  | **Autumn Term** | **Spring Term** | **Summer Term** |
| Year 3 | **Number and Place Value:**  •Represent numbers to 1,000, using 100s, 10s and 1s.  •Number line to 1,000.  •Find 1, 10, 100 more or less than a given number.  •Compare and order objects / numbers to 1,000.  •Count in 50s.  **Number: Addition and Subtraction:**  •Add and subtract multiples of 100.  •Add and subtract 3-digit numbers and ones – not crossing 10 / crossing 10s.  •Subtract a 1-digit number from a 3-digit number – not crossing 10 / crossing 10.  •Add and subtract 3-digit numbers and tens – not crossing 100 / crossing 100.  •Add and subtract 100s.  •Spot the pattern –making it explicit.  •Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100 / crossing 10 or 100.  •Subtract 2-digit number from a 3-digit number – not crossing 10 or 100 / cross the 10 or 100.  •Add two 3-digit numbers – not crossing 10 or 100 / crossing 10 or 100.  •Subtract a 3 –digit number from a 3-digit number – no exchange / exchange.  •Exchange answers to calculations.  •Check.  **Number: Multiplication and Division**  •Multiplication –equal groups.  •Multiplying by and dividing by 3, 4 and 8. | **Number: Multiplication and Division:**  • Comparing statements  • Related calculations  • Multiply / divide 2 digits by 1 digit  • Scaling  **Measurement and Money:**  • Pounds and Pence  • Converting pounds and pence  • Adding and Subtracting Money  • Giving Change  **Statistics:**  • Pictograms  • Bar Charts  • Tables  **Measurement: Length and Perimeter:**  •Measure and compare lengths  •Equivalent lengths (cm and m, mm)  •Adding and subtracting length  •Measure and calculate perimeter  **Number: Fractions**  •Unit and non-unit fractions  •Making the whole  •Tenths  •Counting in tenths  •Tenths as a decimal  •Fractions on a number line  •Fractions of a set of objects | **Number: Fractions**  •Equivalent fractions  •Comparing / ordering fractions  •Add and subtract fractions  **Measurement: Time**  •Months and years  •Hours in a day  •Telling the time to 5 mins / the minute  •AM and PM  •24-hour clock  •Finding / comparing the durations  •Start and end times  •Measuring time in seconds  **Geometry: Property of Shape**  •Turns and angles  •Right angles in shapes  •Compare angles  •Draw accurately  •Horizontal and Vertical  •Parallel and Perpendicular  •Recognise and describe 2D and 3D shapes  •Make 3D shapes  **Measurement: Mass and Capacity**  •Measure and compare mass / capacity  •Add and subtract mass / capacity |