Mathematics @ Mandeville
Maths is my reasoning

Maths provides children with calculation, reasoning and problem solving skills and a secure knowledge of our number system. Mathematical fluency enables children to reason, make connections, speculate, generalise and prove theories. It ensures that children develop skills and knowledge that are critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. Children will be inspired to approach maths with creativity and curiosity.

Year 4 Curriculum	Key Performance Indicators
	Working mathematically • Apply understanding of number, measures and geometry to a range of simple and more complex problems. • Begin to check work for accuracy. • Pose and answer questions to make sense of problems and explain answers. • Break problems into steps, use "guess and check", identify relevant information and use lists and tables to organise.
Number: be familiar with numbers with up to 4 digits, work on numbers up to 10,000 and count in 1s, 10s, 100s and 1000s. Recognise multiples and factor pairs for known times tables. Children will be fluent in all multiplication and division facts up to 12 x 12.	**Number** • **Develop fluency by becoming secure with numbers up to 10,000.** • Count in multiples of 6, 7, 9, 25 and 1000. • Recall multiplication and division facts for multiplication tables up to 12 x 12. • Count backwards through zero to include negative numbers. • Round any number to the nearest 10, 100 or 1000 and decimals with one decimal place to the nearest whole number. • Add and subtract numbers up to 4 digits using formal written methods. • Multiply two digit and 3 digit numbers by a one digit number using the formal written layout. • Solve problems involving multiplying and adding, integer scaling, missing numbers and correspondence. • Add and subtract fractions with the same denominator. • Recognise and write decimal equivalents to ¼, ½ and ¾.
Measurement: use decimals to record measurements accurately, convert between different units of measure.	**Measurement** • Convert between different units of measurement. • Read time accurately on both analogue and digital clocks. • Find area of rectilinear shapes by counting squares and relating to arrays. • Measure and calculate perimeter of rectilinear shapes.
Geometry: extend knowledge to include unusual quadrilaterals, understand symmetry, name different angles and use this information to decide if shapes are regular or irregular.	**Geometry** • Compare and classify shapes e.g. quadrilaterals based on properties and sizes. • Recognise lines of symmetry in 2D shapes. • Describe positions and plot points and movement on a 2D grid as co-ordinates in the first quadrant.
Statistics: complete, read and interpret information on bar charts.	**Statistics** • Read and interpret information presented in bar charts (including a greater range of scales.) • Interpret and present discrete and continuous data using bar charts and time graphs.