Hampton Court House - Lower Years Curriculum - Mathematics: Year 3

	Autumn Term	Spring Term	Summer Term
Skills	Pupils develop their knowledge and understanding of mathematics through practical activities, exploration and discussion. They develop a range of mental calculation skills and use these confidently in different settings. They learn about shape and space through practical activity which builds on their understanding of their immediate environment. They begin to grasp mathematical language, using it to talk about their methods and explain their reasoning when solving problems. Pupils also show workings of how they solve a calculation in a logical way.		
Number: number and place value	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, units).	Compare and order numbers up to 1000. Identify, represent and estimate numbers using different representations. Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas.	
Number: addition and subtraction	Add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Add multiples of 5 and 100. Add and subtract doubles. Find small differences.	Estimate the answer to a calculation and use inverse operations to check answers.	Add and subtract up to 10,000. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Number: multiplication and division	Recall and use multiplication and division by 2, 4, 5 and 10. Understand links between multiplication and division. Multiply and divide by 10 and 100. Double and halve numbers up to 200.	Recall and use multiplication and division facts for 3, 4 and 8. Partition. Divide and find remainders. Write and calculate mathematical statements for multiplication and division using the multiplication tables that students know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	Multiply tens and units – long multiplication in columns and lines. Calculate long divisions. Solve problems, including missing number problems, involving multiplication and division.
Number: fractions	Calculate halves and doubles. Count up and down in tenths.	Understand and find fractions of shapes. Recognize unit fractions of shapes and numbers. Find equivalent fractions. Estimate fractions. Recognize, find and write fractions of sets of objects.	Find fractions with a total of one. Add and subtract fractions with the same denominator within one whole. Compare and order unit fractions, as well as fractions with the same denominator. Solve problems that involve fractions.
Measurement	Measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g) and volume/capacity (l/ml). Tell and read the time with increasing accuracy using vocabulary in English and French such as o'clock/heure; half past/et demi. Understand the concept of time: seconds, minutes, days, months	Add and subtract amounts of money to give change using both £ and p in practical context (using € and centimes). Measure the perimeter of a 2D shape.	Measure the perimeter of simple 2D shapes. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. Compare duration of events.

	and understand how a calendar works.		
Geometry	Measure length. Measure mass/weight. Identify and draw lines of symmetry of a 2D shape.	Identify and give properties of different types of regular polygons and quadrilaterals. Identify angles (acute, right and obtuse) and compare them.	Draw 2D and 3D shapes. Recognize 3D shapes in different orientations and describe them. Calculate areas of shapes.
Statistics		Interpret and present data in bar charts, pictograms and tables.	Solve problems using information presented in scaled bar charts, pictograms and tables.