



Year 5 Maths scheme of Learning- Advent 2021-2022

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
Number: Place Value <ul style="list-style-type: none">• Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.• Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.• Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.• Solve number problems and practical problems that involve all of the above.• Read Roman numerals up 1,000 (M) and recognise years written in Roman numerals.				Number: Addition and Subtraction <ul style="list-style-type: none">• Add and subtract numbers mentally with increasingly large numbers.• Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.		Statistics <ul style="list-style-type: none">• Solve comparison, sum and difference problems using information presented in a line graph.• Complete, read and interpret information in tables including timetables.		Check/re-visit recap/pre-learn	

Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Number: Multiplication & Division <ul style="list-style-type: none"> • Multiply and divide numbers mentally drawing upon known facts. • Multiply and divide whole numbers by 10, 100 and 1,000. • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. • Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3) • Solve problems involving multiplication and division including using knowledge of factors and multiples, squares and cubes. • Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. • Establish whether a number up to 100 is prime and recall prime numbers up to 19. 		Check/re-visit recap/pre-learn	Measurement: Perimeter and Area <ul style="list-style-type: none"> • Measure and calculate the perimeter of composite rectilinear shapes in cm and m. • Calculate and compare the area of rectangles (including squares), and including using standard units, cm^2, m^2, estimate the area of irregular shapes. 		Assessment Week	Revise Revisit Recap

***As a school, we plan in many check/re-cap/pre-learn weeks in the Advent term so that children get a chance to consolidate previous learning and/or pre-learn ideas which will be covered in the next topic. This means that teachers can be sure that knowledge and skills are solid before they re-visit topics in the Lent and Pentecost terms.



Year 5 Maths scheme of Learning- Lent

Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25
Number: Multiplication and Division <ul style="list-style-type: none"> • Multiply and divide numbers mentally drawing upon known facts. • Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for 2-digit numbers. • Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context. • Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. 			Number: Fractions <ul style="list-style-type: none"> • Compare and order fractions whose denominators are multiples of the same number. • Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number (for example $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$) • Add and subtract fractions with the same denominator and denominators that are multiples of the same number. 				Assessment Week	

Week 26	Week 27	Week 28
Number: Decimals and Percentages <ul style="list-style-type: none"> • Read, write, order and compare numbers with up to three decimal places. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Round decimals with two decimal places to the nearest whole number and to one decimal places. • Solve problems involving number up to three decimal place. • Recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred' and write percentages as a fraction with denominator 100, and as a decimal. • Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$ and $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. 		Check/re-visit recap/ pre-learn



Year 5 Maths scheme of Learning- Pentecost

Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35
Number: Decimals <ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of dividing a one or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Solve simple measure and money problems involving fractions and decimals to two decimal places. Convert between different units of measure (for example, kilometre to metre). 			Geometry: Properties of Shape <ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees. Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90° 			Geometry: Position & Direction Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that shape has not changed.

Week 36	Week 37	Week 38
Assessment Week	Measurement: Converting Units <ul style="list-style-type: none"> Convert between different units of metric measure (for example, km and m;cm and mm;g and kg;l and ml) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time. 	Measurement: Volume <ul style="list-style-type: none"> Estimate volume [(for example using 1cm^3 blocks to build cuboids (including cubes)] and capacity (for example, using water) Use all four operations to solve problems involving measure.

