



Maths - Vocabulary Progression.

Parish Church of England Primary School

Core Vital Vocabulary.

In Early Years, weekly mathematics units are covered (through teaching and high-quality provision) with a wealth of suggested vocabulary mapped out per unit of work. This prepares children for the next stage of their Maths education. Rather than being thematic, this is coherently built over time and regularly revisited to aid retention of knowledge throughout ALL areas of learning. The following is the **core vital vocabulary** which children must have an understanding and awareness of to prepare to the next stage of their education.

Please note that a significant proportion of our Reception cohort do not attend our nursery, so this vocabulary has to be regularly revisited to ensure children are ready to progress and have strong foundations for future study.

Strands of Learning:	Nursery	Reception
Patterns and Ordering:	Colours, match, shade, sort, pair, top, middle, bottom, repeat, pattern, first, next, finally.	Same, different, match, large, group, before, earlier, next, after, first, second, third, repeat, how many, repeat, share, equal, pattern, most, least, first, later, then, before, after.
Counting and Composition:	Number, five-frame, count, altogether, one, two, three, four, five, more, fewer, total, one more, one less.	One, two, three, four, five, six, seven, eight, nine, ten, 11-20, how many, count, counting, forwards, backwards, order, one more, one less, part, whole, zero, nothing, more, fewer, ten frame, total, greater, smaller, part whole, number bonds, add, subtract.
Shape, Space and Measure:	Shape, flat, curve, empty, full, small, big, bigger, smaller.	Circle, triangle, rectangle, square, in, on, under, next to, behind, in front of, up, down, tall, small, longest, height, length, container, empty, full, space, curved, round, heavy, light, balance, tall, tallest, pence, coin, cost.

Revisited Vital Vocabulary/ Core Vital Vocabulary

	Y1	Y2	Y3	Y4	Y5	Y6
Number and Place Value (including number fluency).	number, digit, count, ten frame, take away, counting on, counting back, more than, less than, fewer, as many as, equal, 1 more, 1 less, number 11-20, making 10, counting on from 10, in total, altogether, more, few, pattern, 1 more, 1 less, growing pattern, increasing, decreasing, numbers 1-40, tens, ones, count in tens, numbers 1-40, digits, compare, more than, less than, greatest, smallest, How many more? Number pattern, more, more than, fewer, fewer than, even number, odd number, number bonds,	Numbers to 100, counting forwards/backwards/tens, tens, ones, number bond, place-value chart, number line, greatest, smaller, more than, less than, equal to, tens, ones, place-value chart, counting on, counting backwards.	Equal to, ones, tens, hundreds, place value, place value chart, smaller, greater, thousands, multiple, number patterns, 100 more, 100 less,	Equal to, Ones, tens, hundreds, thousands, place value, multiple, number patterns, greater than smaller than, estimate, numbers to 10,000 in numbers/words, 1000 less, 1000 more, rounding, approximation, approximately equal to, Roman numerals, numeral system	Equal to, Ones, tens, hundreds, place value, thousands, multiple, number patterns, greater than smaller than, numbers to 10,000 in numbers/words, 1000 less, 1000 more, rounding, estimate, approximation, ascending, descending, tens of thousands, hundreds of thousands,	Equal to, Ones, tens, hundreds, place value, thousands, multiple, number patterns, greater than smaller than, numbers to 10,000 in numbers/words, 1000 less, 1000 more, rounding, estimate, approximation, tens of thousands, hundreds of thousands, negative number, number line millions, to stand for, algebraic expression, input number, output number, substitute, formula, formulae, consecutive, evaluate, variable
Addition and Subtraction	Number sentence, part/part/whole, number bond, plus, add, equals, addition, altogether, count on, addition, greater number, in total, Crossing out, taking away, subtraction equation, number sentence, minus, subtract, equals, number bond part/part/whole, count back, subtraction, addition fact, subtraction fact, plus, add, equals, minus, subtract,	altogether, ones, tens, addition equation, add the ones, add the tens, plus, equals, number line, addition equation, counting back, taking away, double, making 10, renaming, column method	Equal to, ones, tens, hundreds, place value, place value chart, smaller, greater, thousands, multiple, number patterns, 100 more, 100 less,	add, sum, total, renaming, approximately, place-value counters, altogether, difference, calculation, equation	add, counting on, difference in greater, in total, minus, subtract, altogether, equals, partitioning, column method, renaming, double, addend, subtrahend, bar-model, rounding, approximate, tens thousands, hundreds of thousands, millions,	Revisiting a range of mathematical vocabulary from across units, mixed operation, operation, calculation bracket, bar model

Multiplication and Division	Equal groups, equal. How many are in each group? Groups, twos, gives, tens, row, array, how many are there altogether? Double, twice the amount, ten frame, how many in total? Groups, equal, equal groups, divide, share, share, equally.	total, groups of, lots of equal, times, double, equal to, array, altogether, Sharing, grouping, total, equals, equal groups, groups of, times, multiply, multiplication, groups of, double, twice as many, Multiply, multiplication, groups of, double, divide, division, odd, even, division equation, multiply, multiplication, multiplication equation,	Sharing, grouping, total, equals, equal groups, groups of, times, multiply, multiplication, groups of, double, twice as many, Multiply, multiplication, groups of, double, divide, division, odd, even, multiplication family, division family, commutative properties, rename, counting in 20s, number bonds, divide, division, odd, even, one group less, one group more, multiplication family, division family, commutative properties, multiplying ones, multiplying tens, product, divisor,	Sharing, grouping, total, equals, equal groups, groups of, times, multiply, multiplication, groups of, double, divide, division, multiplication family, division family, commutative properties, inverse, commutativity, sharing, grouping, multiple, multiply, quotient, dividend, divisor, inverse, commutativity, partition, multiple, quotient, dividend, divisor, combinations	ones, tens, hundreds, thousands, ten thousands, hundred thousands, place value, approximate, difference, altogether, total, rename, multiple, factor, prime number, square number, cube number.	Revisiting a range of mathematical vocabulary from across units, mixed operation, operation, calculation bracket, bar model
Fractions	Whole, half/halves, share equally, equal parts, quarter/quarters, fourths.	Fraction, equal, half, halves, quarter, sharing, group, one quarter, unit fraction, numerator, denominator, third, equivalent	fraction, whole, fraction, division, divide, share, whole number, fraction, division, divide, share, numerator, denominator, greater (than), less (than), smaller, <, >., equivalent, tenth,	Fraction, sum, divide, part, whole, number line, numerator, denominator, hundredth, tenth, mixed number, equivalent, simplify, proper fraction, improper fraction,	Mixed number, whole number, numerator, denominator, division, equal pieces, equivalent fractions, compare, order, greatest, smallest, common denominator, mixed number, proper fraction, improper fraction,	Fraction, part, whole, numerator, denominator, hundredth, tenth, mixed number, equivalent, simplify, proper fraction, improper fraction, common denominator, simplify, commutative, simplest form.
Decimals and Percentages				Ones, tens, number pattern, greater than, less than, round, equivalent, numerator, denominator, tenths, hundredths, decimal, decimal point, mixed number,	Ones, tenths hundredths, thousandths, decimal, decimal point, greater than, less than, greatest, smallest, lightest, numerator, denominator, equivalent value, total, difference, perimeter, estimate, rounding, percentage, fraction, hundredth, decimal, percent,	Place Value, regrouping, decimal, ones, tenth, hundredth, thousandth, decimal place, decimal point, Percentage, greater than, less than, percentage change, round, simplified, ratio.

Graphs and Charts		Picture graph, pictogram, tally chart, table, more, fewer, picture graph, pictogram, greatest number, smallest number.	data, pictogram, scale, tally chart, bar graph, scale.	table, bar graph, line graph, pictogram, information, more, less, greatest, fewest, highest, x and y axis, scale,	Duration, hour, minute, am, pm, 24 hour time, end time, midday, line graph, slope, axis, key, table, steepest line, increase, decrease, trend, volume, millilitres.	Average, mean, mode, median, bar chart, equal parts, pie chart, segment, line graph, average speed
Shape (including area and perimeter)	3D shape, cube, cuboid, sphere, pyramid, solid object, 2D shape, circle, square, triangle, rectangle, corners, sides, patterns, corners, sides.	corner, side, point, circle, square, rectangle, pattern, pentagon, hexagon, octagon, symmetrical, Dimension, face, edge, vertex, vertices, cube, cuboid, pyramid, sphere, cone, cylinder.	2D shape, length, total, side, cm, rectangle, square, straight line, point, angle, right angle, edge, face, vertices, two-dimensional, quadrilateral, perpendicular, vertical, parallel, horizontal, vertical, perimeter	x-axis, y-axis, , vertex, isosceles triangle, right-angled triangle, scalene triangle, translation, co-ordinates	x-axis, y-axis, coordinates, x-coordinate, y-coordinate, reflection, image, rectangle, square, perimeter, length, breadth, area, right angle, parallel, perpendicular, estimate, square unit, scale, scale drawing, vertical, horizontal, translation, mirror line.	Length, breadth, perimeter, area, perpendicular, base, height, formula, parallel, parallelogram, pentagon, hexagon, polygon, regular polygon, cuboid, prism, triangular prism, net, face, consecutive, evaluate, variable, vertically opposite angles, equilateral triangle, isosceles triangle, radius, diameter, circumference. The origin, x-axis, y-axis, coordinates, x-coordinate, y-coordinate, quadrilateral, parallelogram, trapezium, rhombus, kite, isosceles triangle, equilateral triangle, translation, reflection, mirror line, object, image
Angles			straight line, angle, point amount of turn, angle, shape, sides, right angle, turn, quarter, half, three quarters, clockwise, anticlockwise, right angle, acute, obtuse.	Angle, right-angle, acute angle, obtuse angle, quadrilateral, equilateral triangle, isosceles triangle, scalene triangle, parallel, square, rectangle, rhombus, parallelogram, trapezium, kite, symmetrical	Acute angle, right angle, obtuse angle, reflex angle, quadrilateral, rectangle, square, parallel, internal angle, external angle, diagonal, regular polygon, pentagon, decagon, vertex, protractor, degrees, diagonal, polygon.	

Time	Time hour hand, minute hand, o'clock, morning, afternoon, evening, night, half-past, second, minute, hour, day, duration, quicker, slower, before, earlier, after, later.	Next, last, before, after, first, time, evening, longer, most, minute, hour, minutes past, half past, quarter past, quarter to, o'clock.	morning, afternoon, evening, night, a.m., p.m., midnight, noon, hour, seconds, minute duration, minute, start time, end time, leap year.	Start, end, time, minutes, hours, days, month, year, arrival, departure, estimate, 12 hour, 24 hour, convert, duration, a.m., p.m.		
Money	Coins, pound coin, penny, coin, pounds, pence, value, notes.	Money, penny, note, coin, more than, less than, exchange, penny, pence, pound, cheaper, expensive.	amount, count on, pounds, pence, coins, notes, money, amount, subtract, difference, pounds, pence, coins, notes, money, total.	tenths, hundredths, decimal, decimal point, decimal place, pounds, pence, estimate.		
Volume and Capacity	Volume, full, more than, less than, compare, capacity, container, unit, liquid, full, half full, empty.	Full, empty, more, less, greatest, least, lesser than, one unit, capacity, volume, litre, millilitre.	Full, empty, container, more, less, litre, millilitre, volume, capacity, measure, ml, l.	estimate, millilitre, litre.	Volume, cubic units, cubic centimetre, cubic metre, cuboid, length, breadth, height, litre, millimetre, capacity.	Cube, cuboid, volume, cubic centimetre, length, breadth, height, cubic metre, cubic millimetre.
Mass	Heavy, light, as heavy as, mass, balance scale, unit, lighter, heavier, more than, less than, heavier than, lighter than, as heavy as.	Balance, weight, more, less, single, group, total, add, subtract, heavier, lighter, kilogram/kg, grams, mass, weight, heaviest, lightest.	Balance, weight, more, less, heavier, lighter, kilogram/kg, grams, mass, weight, scales, estimate.	Metre, centimetre, decimal, kilometre, estimate, gram, millilitre, litre.		
Measure	height, length, measure, width, wide, long, unit, centimetres, tall, short, long.	unit, less than, difference, sum, difference, total, length, unit, centimetre, metre, more than, less than, greater than, longest, shortest, estimate.	length, unit, centimetre, metre, distance, bar model, millimetres, unit of measurement, converting, metres to centimetres, converting centimetres to metres.	Centimetre metre, perimeter, quadrilateral, rectangle, area, square units, length, breadth.	cm, mm, metre, km, mass, gram, kilogram, volume, litre, millilitre, inch, yard, mile, ounce, pound, temperature, thermometer, yard, ounce, pint, gallon.	Millimetres, centimetres, convert, compare, length, width, perimeter, unit of measurement, divide, multiply,