St Mary's Maths Vocabulary Progression Grid

Number and Place Value

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number Number names to twenty (including zero) Pattern Subitise Rekenrek Tens frame Is made from… First Second Third Last Before After	same different count(ing) forwards backwards share left over more (than) less (than) total fewer (than) equal (to) most least ones tens hundreds column place value first second third fourth (and so, on up to) nineteenth Twentieth order number amount value size odd even number line double	Digit numeral exchange interval multiple twenty-one twenty-two twenty-three twenty- four (and so on up to) ninety-nine one hundred place value step counting > as 'greater than' < as 'less than' partition place holder place value estimate estimation inverse third (one) (two) third(s) sharing as much twice as much numerator denominator fraction bar/ vinculum	ascending, descending, hundred(s), part, whole hundreds one hundred and one one hundred and two one hundred and three (and so on up to) one thousand partition exchange multiple(s) inverse operations decima; remainder integer	place holder, roman, numeral, round, thousands rounding negative Roman numerals to 100 operation	Million(s) Roman numerals to one million (M) linear sequence hundred, thousand(s), integer, negative number, power of 10, ten thousand	interval multi-step ten million

Number and Place Value continued

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	halve pair how much how many larger smaller estimate compare together altogether bonds zero between above below					

Addition and Subtraction

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Altogether Count up Count back More than Less than Fewer than Compare Difference Sharing Doubling Halving	sum difference distance between total first plus add(ition) subtract(ion) minus adding (addend/sum) subtraction (minuend/subtrahend/ difference) tens column(s) multiples twenty- on, twenty-two, twenty -three (and so on up to 99) one hundred number line double halve how much how many estimate altogether bonds	Sum Operation Calculation Exchange Ones Tens Hundreds Increase Decrease Partition Value Related facts place holder	column, addition, column, subtraction, digit, estimate, exchange, hundred(s), inverse, crossing the 10, crossing the 100	efficient, inverse, round, thousand(s)	accurate, approximate, constant difference, strategy	order of operations

Multiplication and Division

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
double, equal groups, even, fair, grouping, groups, odd, pair, sharing, unequal, groups	array, divide, repeated, addition	multiple commutative array calculate multiplication multiplicand multiplier product division dividend times tables place holder	commutative, inverse, multiple, product, remainder, scaling multiple(s) inverse operations factor product multiplier dividend divisor quotient	factor factor pairs distributive associative derive remainder hundredth(s) decimal equivalents decimal places proportion inverse, triple, efficient	power (s) prime complement associative derivative common multiple, common factor, cube number, prime number, square number	long division multi-step common factors common multiples composite number, order of operations, powers of

Fractions, Decimals and Percentages

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	(one) half (one/two/three) quarters Share sharing groups grouping part whole equal parts same size bar	Grouping two quarters equivalent one and a quarter' one and 2 quarters one and a half one and 3 quarters half numerator denominator fraction bar/ vinculum	fifths sixths sevenths eighths ninths tenths numerator denominator fraction bar/vinculum order unit-fraction non-unit fraction like fraction scale compare convert integer decimal remainder	decimal equivalent, decimal place, decimal point, hundredths, improper, fractions, mixed numbers, proper fractions, round, tenths places proportion	common denominator, fractional part, percentage, thousandth mixed number(s) percent proportion	simplify, simplest form, recurring simplify degrees of accuracy

Measure (money)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	coin note amount penny/pound/£ coin values: one pence two pence five pence ten pence twenty pence fifty pence	change, cost, worth price amount	Convert	Convert Conversion		

Measure (length and height)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	length long (er) (est) short (er) (est) ruler centimetre(cm) metre (m) far distance measure	height width metre centimetre millimetre	millimetre perimeter kilometre (km) Perimeter	area, kilometres, rectilinear, width	imperial, inches, metric, inch foot yard mile cm2 cm3 m2 m3	formula

Measure (mass, capacity and temperature)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
balanced, balancing scales, empty, float, full, heavier, heaviest, heavy, least, less, light, lighter, lightest, mass, more, most, narrow, sink, tall, thin, weight, wide,	weigh weight heavy heavier (than) heaviest light lighter (than) lightest balance (weighing) scales gram (g) Kilogram (kg full empty more than less than half full	degrees celcius thermometer litre millilitre gram kilogram	Convert	Convert Conversion area rectilinear dimensions kilometre	cubic, centimetres, imperial metric, pints, pounds, volume composite pound pint	formula, gallon, ounces, tonnes mm3 km3 speed mph m/s km/h

Measure (Time)

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
after, afternoon, before, clock, day, evening, later, lunchtime, minute, morning, night, night-time, today, tomorrow, week, weekend, yesterday	year month week weekend day Monday Tuesday Wednesday Thursday Friday Saturday Sunday January February March April May June July August September October November December night hour minute second morning afternoon evening yesterday today tomorrow before after	analogue five/ten/ 1/4 past/to clockwise anticlockwise	analogue clock, 12-hour clock, 24-hour clock, digital clock duration, leap year, am, pm, roman numerals noon midnight	24-hour clock		

Measure (Time) continued

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	old(er) new(er) clock (face) o'clock half past birthday watch hour (hand) minute (hand) minutes past/to quarter past/to half past/to fast(er) quick(er) slow(er) early earlier late later					

Shape

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-d shape, 3-d shape, circle, cone, corner, cube, cuboid, curved, cylinder, face, flat, pyramid, rectangle, rotate, set, sides, solid, sort, sphere, square, straight, surface, triangle	Pattern 2-D Rectangle/oblong circle square triangle 3-D cube cuboid pyramid sphere side(s)	vertical horizontal vertices vertex edges faces quadrilateral polygon prism cone symmetry symmetrical line of	acute, obtuse, angle, vertical horizontal, parallel, perpendicular, polygon, right angle orientation degree(s) clockwise anti-clockwise reflex reflection quadrilateral polyhedron polyhedra	equilateral, regular, irregular, isosceles, parallelogram, quadrilateral, rhombus, scalene, trapezium orientation degree(s) right angle perpendicular parallel horizontal vertical classify polygon pentagon hexagon heptagon octagon nonagon decagon polyhedron polyhedra acute obtuse isosceles scalene equilateral parallelogram rhombus trapezium protractor regular irregular	adjacent, degrees, reflex angle orientation degree(s) right angle perpendicular parallel diagonal horizontal vertical quadrilateral polygon polyhedron polyhedra acute obtuse reflex point reflection 180° 360°	base, circumference, diameter, dimensions, interior angles, intersect, net, opposite, angles, radius, quadrant(s) dissect(ion) net(s) radius diameter circumference vertically opposite complementary angles Pi

Statistics

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		pictogram tally chart block diagram table data category(ies) collect record key	interpret data category scale key axis, bar chart, cell, horizontal axis, label, scale, two-way table, vertical axis,	label graph data, estimate, line graph	timetable, variable interpret data categories scale	average, dual bar chart, mean, pie chart mean average data set

Position and Direction

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
above, around, backwards, below, beside bottom, forwards, map, next to, position, route, top	right top middle bottom in front of behind between above below around near close far up down forwards backwards full turn, half turn, left, near quarter turn, right, three-quarter turn, direction inside outside clockwise	Straight curved rotate rotation angle right angle anti-clockwise, between, clockwise		coordinates, grid, reflection, translation Plot translate axis axes scale gird quadrant	quadrant, X axis y-axis point reflection 180° 360°	x y-axis-axis quadrant(s)

Ratio and proportion

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						additive, enlargement, multiplicative, proportion, ratio, scale factor, scaling, simplest form relative size scale factor proportion ratio as a:b

Algebra

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						algebra, equation, expression, function, input, linear output, rule, solve, substitution, value, symbol letter formula(e) sequence algebraic(ally) unknown variable constant generalise