

## Meath Green Infant School

Progression in Mathematics				
	Reception	Year One	Year Two	
Number and Place Value	Subitise. Link the number symbol (numeral) with its	I know how to count, read and write numbers to 100 in numerals;	I know how to compare and order numbers from 0 up to 100; using	
Declarative I know	cardinal number value.	I know, when given a number, how	and = signs.	
Procedural i can	than' relationship between consecutive	L know how to use the language of:	numbers to the nearest 10.	
	Count objects, actions and sounds	equal to, more than, less than (fewer) most least	I know how to identify, represent	
	Count beyond 10	Lknow how to identify and	different representations, including	
	Compare numbers	represent numbers using objects	Lknow how to read and write	
	ELG:	including the number line.	numbers to at least 100 in numerals and in words.	
	Have a deep understanding of number to 10, including the composition of each number;	I know how to read and write numbers from 1 to 20 in numerals	I know the place value of each digit	
	Subitise (recognise quantities without counting) up to 5; Verbally count beyond 20,	and words.	in a two-digit number (tens, ones).	
	recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one	I can count in multiples of twos, fives and tens.	I can count in steps of 2, 3 and 5 from 0, and in tens from any	
	quantity is greater than, less than or the same as the other quantity: Explore and	I can count to and across 100,	number, forward of backward.	
	represent patterns within numbers up to 10, including evens and odds, double facts and	with 0 or 1, or from any given number.		
	now quantities can be distributed equally.			
Key Vocabulary	How many?, count, number names, subitising Greater than/less than quantity	0-100, 10/1 more, 10/1 less, numeral, digit, in order, first, second, third, order, size, value, odd/even, between, halfway between, above, below, ones, tens, represent, beginning with 0, greater than, less than, more, less, equal to	1-100, hundreds, 3-digit number, place, place value, partition, recombine, hundred more/less, hundreds column, compare, order, in words, greater than/less than/equal to symbols	

Addition and Subtraction	Explore the composition of numbers to 10.	I know how to represent and use	I know how to recall and use
		number bonds and related	addition and subtraction facts to 20
Declarative I know	Automatically recall number bonds for	subtraction facts within 20	fluently, and derive and use related
Declarative r know	number 0-10	Subtraction facts within 20.	facts up to 100
Procedural Lean		I know how to read, write and	
riocedurarican	ELC:	interpret mathematical statements	I know that addition of two
	Automatically recall (without reference to	involving addition (1) subtraction (1)	numbers can be done in any order
	Automatically recail (without reference to	and equals (=) signs (appears also in	(commutative) and subtraction of
	hands up to 5 (including or other alus) humber	and equals (=) signs (appears also in	(commutative) and subtraction of
	bonds up to 5 (including subtraction facts)	written methods).	one number from another cannot.
	and some number bonds to 10, including		
	double facts; Explore and represent patterns	I can add and subtract one digit and	I know and use the inverse
	within numbers up to 10, including evens	two-digit numbers to 20, including	relationship between addition and
	and odds, double facts and how quantities	zero.	subtraction and use this to check
	can be distributed equally.		calculations and solve missing
		I can solve one-stop problems that	number problems.
		involve addition and subtraction,	
		using concrete objects and pictorial	I can halve and double 2-digit
		representations, and missing	numbers.
		number problems such as 7 = $\Box$ - 9	
			I can add and subtract numbers
			using concrete objects, pictorial
			representations, and mentally,
			including: a two digit number and
			ones / a two-digit number and tens
			/ two two-digit numbers adding
			three one-digit numbers.
			I can solve problems with addition
			and subtraction: using concrete
			objects and pictorial
			representations, including those
			involving numbers, quantities and
			measures and applying their

			increasing knowledge of mental and written methods.
			I can solve simple problems in a
			and subtraction of money of the
			same unit, including giving change
Key Vocabulary	add, more, less, takeaway, equals, how	number bonds, number line plus,	take from, taken from
	many?, altogether, more than, fewer than,	make, sum, total, subtract, minus,	
	the same as, equal to, how many more do	fewer, inverse, double, near double,	
	we need?	is the same as, equals symbol, find	
		how many more make 2 How many	
		more/fewer is, than? How much	
		more is? count on, count back	
Multiplication and Division		I know how to count in multiples of	I know, can recall and use
		twos, fives and tens.	multiplication and division facts for
Declarative I know			the 2, 5 and 10 multiplication
		I can solve one-step problems	tables, including recognising odd
Procedural I can		involving multiplication and division,	and even numbers.
		by calculating the answer using	
		concrete objects, pictorial	I know that the multiplication of
		representations and arrays with the	two numbers can be done in any
		support of the teacher.	order (commutative) and division
			of one number by another cannot.
			I can calculate mathematical statements for multiplication and
			division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs.

			I can solve problems including multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Key Vocabulary	Equal, sharing, groups, compare, fair	count in twos, threes, fives, count in tens, forwards, backwards, How many times? lots of, groups of, once, twice, three times, five times, multiple of, multiply (by), times, by, repeated addition, array, row, column, double, halve, share, share equally, group in pairs, threes, etc, equal groups of, divide, divided by, left, left over, repeated subtraction, divide by, groups of	Times tables, times ,multiplied by, remainder
Fractions Declarative I know		I know that a half is one of two equal parts of an object, shape or quantity.	I know, recognise, find, name and write fractions ½¼¾1/32/4 and / of a length, shape, set of objects or
Procedural I can		I know a quarter as one of four equal parts of an object, shape or quantity.	quantity. I can write simple fractions e.g. ½ of 6 = 3 and recognise the simple equivalence.
Key Vocabulary		whole, equal parts, four equal parts, one half, two halves, a quarter, two quarters, pictorial representation of	three quarters, one third, a third, equivalence, equivalent
Measurement Declarative I know	Compare length, weight and capacity.	I know how to compare, describe and solve practical problems for: • Lengths and heights	I know the number of minutes in an hour and the number of hours in a day.
Procedural I can			

		<ul> <li>Mass/weight (e.g. heavy/light, heavier than, lighter than)</li> <li>Capacity and volume (e.g. full/empty, more than, less than, half, half full, quarter) time (e.g. quicker, slower, earlier, later).</li> </ul>	I know how to choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rules, scales, thermometers and measuring vessels.
		I know and recognise the value of different denominations of coins and notes.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular
		hour and half past the hour and draw the hands on a clock face to	I can compare and order lengths,
		show these times. I know, recognise and use language relating to dates, including days of the week, weeks, months and years.	mass, volume/capacity and record the results using <, > and =. I can compare and sequence intervals of time. I can solve simple problems in a practical context
		I can sequence events in chronological order using language (e.g. before and after, next, first, today, yesterday).	involving addition and subtraction of money of the same unit, including giving change.
		I can measure and begin to record the following: lengths and heights, mass/weight, capacity/volume and	I can tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
Key Vocabulary	Length weight canacity exactly long short	time (hours, minutes, seconds).	quarter pact/to metres kilometre
	bigger than, smaller than, heavier than, lighter than, empty, full, half full, yesterday,	empty, holds, container, weigh, weighs, balances, heavy, heavier,	m, km, grams, g, kilograms, kg, ml, millilitre, litres, l, temperature,
	tomorrow, day before, day after, first, then,	heaviest, light, lighter, lightest,	degrees £ p

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	after, every day, every evening, morning, afternoon, evening, night-time, earlier, later, too late, too soon, in a minute	scales, time, days of the week, seasons, day, week, month, year, weekend, birthday, holiday, morning, afternoon, evening, night, midnight, midday, bedtime, dinnertime, playtime, today, yesterday, tomorrow, takes longer, takes less time, hour, o'clock, half past, hands, clock, watch, How long ago? How long will it be to? How long will it take to? How often? before, after, next, last, now, soon, early, late, quick, quicker, quickest, fast, faster, fastest, slow, slower, slowest, slowly, old, older, young, younger, youngest always, never, sometimes, usually, once, twice, first, second, third etc. estimate, close to, about the same, just over, just under, too many, too few, not enough, enough, width, depth, long, longer, longest, short, shorter, shortest, tall, taller, tallest, high, higher, highest low, wide, narrow, deep, shallow, thick, thin, far, close, near metre, ruler, metre stick How many? How much? money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, dear, cost	
Geometry, Shape and Position Declarative	Select, rotate and manipulate shapes in order to develop spatial reasoning skills.	I know the name of common 2-D shapes, including: rectangles, squares, circles and triangles.	I know how to recognise and describe the properties of 3D shapes, including the number of edges, vertices and faces.

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I know	Compose and decompose shapes so that	I know the name 3-D shapes:	
Procedural	children recognise a snape can have other	cubolds, cubes, pyramids and	I know to use mathematical
l can	Continue, copy and create repeating patterns.	position, direction and movement, including half, quarter and three- quarter turns.	direction and movement including movement in a straight line and distinguishing between rotation as
			for quarter, half and threequarter turns (clockwise and anti- clockwise).
			I can identify 2-D shapes on the surface of 3-D shapes, (for example, a circle on a cylinder and
			a triangle on a pyramid). I can compare and sort common 2-D and 3-D shapes and everyday objects. I can order and arrange
			combinations of mathematical objects in patterns and sequences.
Key Vocabulary	in, on, under, up, down, besides, between circle, triangle, oblong, square, cube, pyramid, cuboid, cone, sphere, cylinder, side, corner, edge, 2D shapes, 3D shapes, tangram shapes	position, over, underneath, below, side, in, outside, inside, around, front, back, before, after, beside, opposite, apart, middle, journey, left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from, movement, slide, roll, turn, whole turn, half turn, left turn, right turn, quarter	rotation, clockwise, anti-clockwise, straight line, ninety degree turn, right angle, full turn size, bigger, smaller, larger, symmetrical, line of symmetry, fold, match, mirror line, reflection, pattern, repeating pattern, base, diagonal
		cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square, shape, flat, curved, straight,	

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	round, hollow, solid, edge, centre, corner, direction, point, pointed, make, build, draw, rotated, vertex, vertices	
Statistics Declarative		I know how to use lists/tables/diagrams to sort objects.
Procedural I can		I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables.
		I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
		I can ask and answer questions about totalling and comparing categorical data.