'Mathematics for academic year – Class 2'

Years 1 and 2

	Year 1 children	Year 2 children
Number –	count to and across 100, forwards and	count in steps of 2, 3, and 5 from 0,
number and	backwards, beginning with 0 or 1, or	and in tens from any number, forward
place value	from any given number	and backward
	count, read and write numbers to 100	recognise the place value of each digit
	in numerals; count in multiples of	in a two-digit number (tens, ones)
	twos, fives and tens	the difference of a distribution
	given a number identify one mare	identify, represent and estimate
	given a number, identify one more and one less	numbers using different
	and one less	representations, including the number line
	identify and represent numbers using	line
	objects and pictorial representations	compare and order numbers from 0 up
	including the number line, and use the	to 100; use <, > and = signs
	language of: equal to, more than, less	to zoo, abo y and e.g
	than (fewer), most, least	read and write numbers to at least 100
	, , ,	in numerals and in words
	read and write numbers from 1 to 20	
	in numerals and words.	use place value and number facts to
		solve problems.
Number –	read, write and interpret	solve problems with addition and
addition and	mathematical statements involving	subtraction:
subtraction	addition (+), subtraction (–) and	
	equals (=) signs	using concrete objects and pictorial
		representations, including those
	represent and use number bonds and	involving numbers, quantities and
	related subtraction facts within 20	measures
	add and subtract one-digit and two-	applying their increasing knowledge of
	digit numbers to 20, including zero	mental and written methods
	angle manners to 20, merading zero	memarana witten membas
	solve one-step problems that involve	recall and use addition and subtraction
	addition and subtraction, using	facts to 20 fluently, and derive and use
	concrete objects and pictorial	related facts up to 100
	representations, and missing number	
	problems such as $7 = \square -9$.	add and subtract numbers using
	·	concrete objects, pictorial
		representations, and mentally,
		including:
		a two-digit number and ones
		a two digit number and ones
		a two-digit number and tens
		two two-digit numbers
		adding three one-digit numbers
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Number – multiplication and division	solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication
		and division, using materials, arrays, repeated addition, mental methods,
		and multiplication and division facts, including problems in contexts.
Number – Fractions	recognise, find and name a half as one of two equal parts of an object, shape	recognise, find, name and write $\frac{1}{2}$ $\frac{1}{2}$ $\frac{2}{3}$
	or quantity	fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity
	recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.
Measurement	compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]	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 rulers, scales,
	mass/weight [for example, heavy/light, heavier than, lighter than]	thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and =

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	capacity and volume [for example,	recognice and use sumbale for a country
	full/empty, more than, less than, half,	recognise and use symbols for pounds
	half full, quarter]	(£) and pence (p); combine amounts to
		make a particular value
	time [for example, quicker, slower,	
	earlier, later]	find different combinations of coins
		that equal the same amounts of money
	measure and begin to record the	
	following:	solve simple problems in a practical
		context involving addition and
	lengths and heights	subtraction of money of the same unit,
	mass/weight	including giving change
	capacity and volume	
	time (hours, minutes, seconds)	compare and sequence intervals of
	time (nodrs, minutes, seconds)	time
		tille
	recognise and know the value of	Tall and the Barbara to Constitution
	different denominations of coins and	tell and write the time to five minutes,
	notes	including quarter past/to the hour and
		draw the hands on a clock face to show
	sequence events in chronological	these times
	order using language [for example,	
	before and after, next, first, today,	know the number of minutes in an
	yesterday, tomorrow, morning,	hour and the number of hours in a day.
	afternoon and evening]	
	recognise and use language relating to	
	dates, including days of the week,	
	weeks, months and years	
	weeks, months and years	
	tell the time to the hour and half past	
	the hour and draw the hands on a	
	clock face to show these times.	
Caamaatmi		identify and describe the properties of
Geometry –	recognise and name common 2-D and	identify and describe the properties of
Properties of	3-D shapes, including:	2-D shapes, including the number of
Shapes		sides and line symmetry in a vertical
	2-D shapes [for example, rectangles	line
	(including squares), circles and	
	triangles]	identify and describe the properties of
		3-D shapes, including the number of
	3-D shapes [for example, cuboids	edges, vertices and faces
	(including cubes), pyramids and	
	spheres].	identify 2-D shapes on the surface of 3-
		D shapes [for example, a circle on a
		cylinder and a triangle on a pyramid]
		, , , , , , , , , , , , , , , , , , , ,
		compare and sort common 2-D and 3-
		D shapes and everyday objects.
Geometry –	describe position, direction and	order and arrange combinations of
Position and	movement, including whole, half,	mathematical objects in patterns and
Direction	quarter and three-quarter turns.	sequences

	use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
Statistics	interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
	ask and answer questions about totalling and comparing categorical data.