Topic Vocabulary, Skills and Knowledge

Subject……Maths …… Year……2…… Curriculum lead…Damian Moore

Vocabulary

I understand and can use these words:

Number and Place Value	numeral	digit	hundreds	tens
	ones	partition	recombine	number facts
	number sentence	number line	equal to	calculation
	identify	estimate	represent	pictorial
	more/greater than	less/fewer than	forwards	backwards
	most	least	count in multiples	compare
	equal to	column	one-digit	two-digit
	three-digit	tens number	teens number	predict
Methods	number bond	number sentence	equals	same as
	operation	sign/symbol	concrete	pictorial
	representation	missing number	problem	solve
	reasoning	commutative	inverse	column method
	carry over	borrowing		
Addition and Subtraction	add	addition	more	plus
	total	sum	altogether	increase
	subtract	subtraction	minus	less
	take away	fewer	left	left over
	different between	difference	leave	
Multiplication and division	multiply	product	multiples	array
	multiplication facts	times	double	repeated addition
	lots of	multiples of		
	divide	divided into	divided by	share equally

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Measurement	groups of	share	equal groups of	half
	measure	measurement	compare	scale
	value	standard unit	estimate	
	length	height	width	depth
	tall/taller/tallest	long/longer/longest	wide/wider/widest	narrow/narrower/ narrowest
	short/shorter/shortest	ruler	metre stick	tape measure
	metre	centimetre	millimetre	double/half
	mass	weight	weigh	balance
	scales	heavy/heavier/heaviest	light/lighter/lightest	kilograms
	grams			
	capacity	volume	container	measuring jug
	holds more/less	hold most/least	litre	millilitres
	full/empty	half full/empty	quarter full/empty	
	temperature	thermometer	Celsius	Fahrenheit
	money	pounds	pence/penny	coin/note
	price	spend/spent	total	buy/sell
	pay	change	More/most expensive	Cheap/cheaper/cheapest
	cost			
	day	week	days of the week	month
	year	months of the year	seasons	morning
	afternoon	evening	night	midnight
	midday	holiday	weekend	birthday
	bedtime	dinner time	playtime	home time
	yesterday	today	tomorrow	before/after

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	early/earlier	late/later	quick/quicker/quickest	slow/slower/slowest
	takes longer	takes less time	clock/ watch	hand
	time	hour	minute	second
	interval	o'clock	half past	quarter past/to
	past	to		

Geometry	build	draw	property	identify
	flat	straight	curved	round
	2-d	2-dimensional	side	corner
	rectangle	square	circle	triangle
	octagon	pentagon	line of symmetry	
	3-d	3 dimensional	hollow	solid
	vertex/vertices	surface	edge	base
	cube	cuboid	pyramid	sphere
	prism	cylinder	faces	hollow/solid
	pattern	sequence	repeated	position
	direction	movement	whole/ half turn	quarter/ 3 quarter turn
	rotate	clockwise	anti-clockwise	turn
	right-angle	forwards	backwards	left
	right			
Fractions	part	equal parts	whole	half /halves
	quarter/3 quarters	third	share	divide
	quantity	equivalent		

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Statistics	interpret	construct	tally	block/bar
	chart/graph/table	category	data	statistics

Skills

I can:

Place Value		
Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward.	Recognise the place value of each digit in a two-digit number (tens and ones).	Identify, represent and estimate numbers using different representations, including the number line.
Compare and order numbers from 0 up to 100; using <, > and = signs.	Read and write numbers to at least 100 in numerals and in words.	Use place value and number facts to solve problems.
Addition and Subtraction		
Solve problems with addition and subtraction: • Using concrete objects and pictorial representations, including those involving numbers, quantities and measures • Applying their increasing knowledge of mental and written methods.	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • A two-digit number and 1s • A two-digit number and 10s • 2 two-digit numbers • Adding 3 one-digit numbers.

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Show that addition of 2 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.	
Multiplication and Division		
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.	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 2 numbers can be done in any order (commutative) and division of 1 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.	Recognise odd and even numbers.	
Measurement - Using Measure		
Choose and use appropriate standard units to estimate and measure length/height in any direction using m/cm to the nearest appropriate unit.	Choose and use appropriate standard units to estimate and measure mass using kg/g to the nearest appropriate unit,	Choose and use appropriate standard units to estimate and measure temperature using °C to the nearest appropriate unit.

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Choose and use appropriate standard units to estimate and measure capacity using litres/ml to the nearest appropriate unit.	Use rulers, scales, thermometers and other measuring vessels.	Compare and order lengths, mass, volume/capacity and record the results using >, < and =.
Measurement- Money		
Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.	Find different combinations of coins that equal the same amounts of money.	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
Measurement – Time		
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.	Know the number of minutes in an hour and the number of hours in a day.	Compare and sequence intervals of time.
Geometry – 2D and 3D shapes		
Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Shapes: circles, rectangles (including squares), triangles, pentagons, octagons.	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Shapes: cubes, cuboids, spheres, cones, cylinders, prims, pyramids.	Identify 2-D shapes on the surface of 3-D shapes.

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Compare and sort common 2-D and 3-D shapes and everyday objects.		
Geometry – Position and direction		
Order and arrange combinations of mathematical objects in patterns and sequences,	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line.	Distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns including clockwise and anti-clockwise.
Fractions		
Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length.	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a shape.	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a set of objects or quantity.
Write simple fractions, for example 1/2 of 6 = 3.	Recognise simple equivalent fractions such as 2/4 and 1/2.	
Statistics		
Interpret and construct simple pictograms, tally charts, block diagrams and 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.

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Knowledge

I know:

When my birthday day is (day and month).	What Teach it, Twist it, and Deepen it mean.	What fluency means.
What reasoning means.	How many minutes are in an hour	How many hours are in a day
The days of the week and which of these are the weekend.		