



Topic Vocabulary, Skills and Knowledge

Subject.....Maths Year.....3..... Curriculum lead...Damian Moore

Vocabulary

I understand and can use these words:

Number	odd	even	digit	numeral
	consecutive	sequence	sort	classify
	property	predict	ascending	descending
	application	reasoning	problem solving	mastery
	greater than	less than		
Place Value	ones	tenths	hundredths	thousandths
	integers	place holder	partition	compare
	decrease	increase	represent	estimate
	place holder	column		
Methods	written method	mental calculation	column method	compact method
	extended method	operation	inverse	commutative
	recall	equals	sign/symbol	ones/tens/hundreds boundary
	carry over	Number facts		
Addition and Subtraction	add	addition	more	plus
	increase	total	sum	altogether
	subtract	subtraction	minus	less
	decrease	take away	fewer	leave
	difference			
Multiplication and division	multiply	product	multiples	scale
	multiplication facts	times	double	
	divide	share	half	share equally



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	remainder	groups of		
Measurement	measure	convert	unit of measure	measurement
	compare	scale	estimate	approximately
	length	width	breadth	wide
	narrow	long/longer/longest	short/shorter/shortest	far/further/furthest
	perimeter	ruler	metre stick	distance apart / between / to / from
	metre	centimetre	millimetre	
	Mass	Kilogram	Gram	Weight
	Balances	Weigh	Heavy/heavier/heaviest	Light/lighter/lightest
	scales			
	volume	capacity	litre	millilitre
	deep	shallow	container	full
	empty	half full/empty	Solid	hollow
	money	pounds	pence	coin/note
	price	cost	spend/spent	change
	more/most expensive	less/least expensive	Cheap/cheaper/cheapest	value/worth
	Decimal point			
	hour	minute	second	years
	month	week	day	fortnight
	leap year	century	calendar	seasons
	morning	afternoon	evening	night
quickest	slowest	clock	analogue	
watch	hands	digital	Roman Numerals	



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	O'clock	midnight	noon	a.m/p.m
	12 hour clock	24 hour clock		
Geometry	regular	irregular	geometric	angle
	right angle	acute	obtuse	reflex
	turn	half turn	quarter turn	full turn
	Horizontal	Vertical	symmetrical	symmetry
	mirror line	reflection	perpendicular	parallel
	curved	straight		
	2 dimensional	corner	side	perimeter
	centre	area	circle	circular
	semi-circle	triangle/triangular	isosceles	scalene
	equilateral	square	oblong	quadrilateral
	polygon	rectangle/rectangular	pentagon/pentagonal	hexagon/hexagonal
	heptagon/heptagonal	octagon/octagonal		
	3 dimensional	net	hollow	solid
	vertex/vertices	surface	edge	base
	cube	cuboid	pyramid	cone
sphere	cylinder	prism	model	
Fractions and Decimals	part	equal parts	numerator	denominator
	whole	half	third	quarter
	fifth	sixth	eighth	tenth
	twentieth	hundredth	equivalent	Unit fraction
	Non-unit fraction			



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Statistics	data	tally	sort	survey
	questionnaire	graph	bar chart	bar/tally chart
	pictogram	represent	group	set
	table	label	title	axis/axes
	most/ least popular	most/ least common	findings	analyse

Skills

I can:

Place Value		
Identify, represent and estimate numbers using different representations.	Find 10 or 100 more or less than a given number	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).
Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words.	Solve number problems and practical problems involving these ideas.	Count from 0 in multiples of 4, 8, 50 and 100
Addition and Subtraction		
Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds.	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	Estimate the answer to a calculation and use inverse operations to check answers.
Solve problems using missing number problems.	Solve problems using number facts and place value.	Solve problems using complex addition and subtraction.



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Multiplication and Division		
Count from 0 in multiples of 4, 8, 50 and 100.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Write and calculate mathematical statements for multiplication and division using the multiplication tables I know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
Solve problems, including missing number problems, involving multiplication and division.		
Measurement - length, perimeter and area		
Measure and compare lengths using m, cm and mm.	Measure the perimeter of simple 2D shapes.	Add and subtract: lengths using m, cm and mm.
Measurement- Money		
Identify, count and add up different amounts of coins.	Add and subtract amounts of money.	Subtract amounts of money to give change, using both £ and p.
Measurement - Time		
Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks.	Estimate and read time with increasing accuracy to the nearest minute.	Record and compare time in terms of seconds, minutes and hours.



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Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.	Know the number of seconds in a minute and the number of days in each month, year and leap year.	Compare durations of events, for example to calculate the time taken by particular events or tasks.
Measurement - Mass and Capacity		
Measure and compare mass, using appropriate scales (kg and g).	Add and subtract mass using kg and g.	Measure and compare volume/capacity using a range of measuring jugs/containers (l and ml).
Add and subtract volume/capacity using l and ml.		
Geometry		
Recognise angles as a property of shape or a description of a turn. and	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
Draw and describe the properties of 2-D shapes.	Make and describe the properties of 3-D shapes using modelling materials.	Recognise 3-D shapes in different orientations and describe them.
Fractions and Decimals		
Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.



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Recognise and show, using diagrams, equivalent fractions with small denominators.	Compare and order unit fractions, and fractions with the same denominators.	Add and subtract fractions with the same denominator within one whole [for example, $57 + 17 = 67$]
Solve problems that involve fractions.		
Statistics		
Ask a question, carry out a survey and present my findings.	Interpret and present data using bar charts, pictograms and tables.	Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables. For example, 'How many more?' and 'How many fewer?'

Knowledge

I know:

I know the day and month of my birthday.	How many days are in a week and a year including a leap year.	How many months are in a year.
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I know how many days are in each month.	How to describe events using the words, today, yesterday and tomorrow.	How to write the date in long and short form.
When to use a written or mental method.	Why we use different units of measure.	How many seconds are in a minute.
The different vocabulary used for addition, subtraction, multiplication and division.	What application, reasoning and problem solving mean.	How to work in Greater Depth.
That Fluent in 5 is helping me with my fluency.		