

## St. Mark's Maths Medium Term Planning



## **Year 3 Yearly Overview**

Red objectives are essential; these should prioritised within planning and revisited throughout the year. They are core learning on which next year's curriculum is based. All objectives need to be taught and, where possible, combine objectives so that application is stressed, e.g. fractions of measures.

					Number:	Number	r and Place V	alue					
Counting Underst		anding place value   Identifying, repres		senting,	enting, estimating Compa		ring numbers Reading & w		& writing numbers	Problem solving			
			the place value		Identify, represent and estimate						write numbers up	Solve number problem	
• • • • • • • • • • • • • • • • • • • •			git in a 3-digit	n	numbers using different			l		numerals and in	and practical problems		
or less than a given number number (100s, 10s,			100s, 10s, 1s)	r	representations.				words			involving these ideas.	
Number: Addition and Subtraction													
Mental Calculation Written				ritten n	n methods Inverse operation			ons, esti	mating & che	cking answer	s Problem solving		
Add and subtract numbers mentally,  Add and subtract				ract nu	numbers with up to Estimate the ans			swer to a calculation and use			Solve problems, including missing		
including a 3-digit n	umber and o	nes; a 3-	3 digits, using	forma	formal written methods inverse opera-			ons to check answers			number problems, using number facts,		
digit number and te	ens and a <mark>3-d</mark> i	git number	of columnar	of columnar addition and subtraction			·				place value, and more complex addition		
and hundreds			(expanded co	expanded column addition/							and subtraction		
subtraction													
Number: Multiplication and Division													
Mental and Written calculation							Problem solving						
Recall and use mult	iplication	Write and ca	lculate mathem	atical s	I statements for × and ÷ using the			Solve problems, including missing number problems, involving × and					
and division facts for the 3, 4 multiplication tables that they k				•	now, including for 2-digit numbers times 1-			÷, including positive integer scaling problems and correspondence					
and 8 multiplication	and 8 multiplication tables digit numbers, using mental and progressing to formal written methods (Grid) problems in which n objects are connected to m objects. (Algebra							o m objects. <i>(Algebra)</i>					
					N	umber: I	Fractions						
Counting in			Recognising fra	ctions		Comparing fractions Adding fraction			ng fractions	Equivalenc	e Problem solving		
fractional steps										Recognise and			
Count up & down	recognise that tenths Ro		•		Recognise and use		Compare and order		r Add and	Add and subtract		•	
in tenths	arise from dividing w		vrite fractions of a		fractions as		unit fractions, and		fractions with the		show, using	that involve all o	
	an object into 10 d		iscrete set of objects: numbers: unit			fractions with the			nominator	diagrams,	the above		
	equal parts and in u		nit fractions & non- fractions and			same denominators			ne whole [for	•			
	dividing 1-digit		nit fractions with unit fractions		with	•			example, 5/7 + 1/7 = <b>fr</b>				
		mall denominators small denomin		ators	ors		-, - 1		small				
quantities by 10						denom							
						Measur	rement						
Comparing		Measuring and calculating					Telling the time						
Compare durations	Measure	Measure,									imate and read time with increasing		
of events [E.g. to	the						,				ccuracy to the nearest minute; record and		
calculate the time	•	perimeter lengths (m/		-				0 0			compare time in terms of seconds, minutes		
taken by particular	of simple mass (kg/g		. •,.		•		•		•		and hours; use vocabulary such as o'clock,		
events or tasks].	2-D shapes volume/cap		pacity (I/ml) practical contexts		and 12 clocks	and 12-hour & 24-hour clocks		year and leap year a.m		a.m./p.m., morning, noon & midnight			

	Geomet	Statistics			
Drawing & constructing		Angles	Interpreting, constructing and representing data		
Draw 2-D shapes and make 3-D	Recognise angles	Identify right angles, recognise that two	Identify horizontal	Interpret and	Solve one-step and two-step
shapes using modelling	as a property of	right angles make a half-turn, three make	and vertical lines and	present data using	questions [for example, 'How many
materials; recognise 3-D shapes	shape or a	three quarters of a turn and four a	pairs of	bar charts,	more?' and 'How many fewer?'] using
in different orientations and	description of a	complete turn; identify whether angles	perpendicular and	pictograms and	information presented in scaled bar
describe them	turn	are greater than or less than a right angle	parallel lines.	tables	charts and pictograms and tables.

Examples of what each objective looks like are available on NCETM's website, (National Centre for the excellence of teaching in maths), www.ncetm.org.uk. Click on: New National Curriculum 2014 blue box – National Curriculum Resource Tool - select appropriate year group and area – click on exemplification.

## Suggested Yearly Pacer Year 3

Measurement should be viewed as applied number and calculation. All opportunities to use number in real life contexts should be exploited.

Links between fractions, division and multiplication should be made. Please take all opportunities to draw objectives together rather than teach discretely.

The aims of fluency, reasoning and problem solving should be embedded in all teaching.

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 2	Summer 2		
N	umber		Number	Nui	Number		
Number and Place	Number and Place						
Value	Value	Value	Value	Value	Value		
Addition and	Addition and						
Subtraction	Subtraction	Subtraction	Subtraction	Subtraction	Subtraction		
Multiplication and Division	Multiplication and Division						
	Fractions		Fractions		Fractions		
Mea	surement	Me	asurement	Measu	Measurement		
Money	Length	Time	Money	Time	Money		
Time	Capacity	Volume	Mass	Length, Mass, Capacity and Volume			
Geome	try/Statistics	Geom	etry/Statistics	Geometr	Geometry/Statistics		
Shape	Statistics	Shape	Statistics		Shape		