MATHS MTP

Year 6

RtP objectives are in red - these are to be the priority and covered first before N.C objectives

Black objectives are objectives that are from the national curriculum.

The following RtP objectives are covered daily through Ten A Day:

- 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).
- 6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.
- 6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.
- 6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
- 6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).
- 6AS/MD-1 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and placevalue understanding.
- 6AS/MD–3 Solve problems involving ratio relationships.
- 6AS/MD–4 Solve problems with 2 unknowns
- 6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.
- 6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value.
- 6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy

TERM	Week 1. Week 2. Week 3 and Week 4	Week 5 and Week 6	Week 7 and Week 8
l:l	Place Value	Addition and subtraction	Multiplication and division
Week 1 =	Round any whole number to a required degree of	Solve addition and subtraction	Multiply multi-digit numbers up to 4
2 days			digits by a two-digit whole number
_ 0	accuracy	multi-step problems in contexts, deciding which	
of x tables	lles magetive mymakans in context and calculate		using the formal written method of long
undies	Use negative numbers in context, and calculate intervals across zero	operations and methods to use	1
(8	unervous across zero	and why	<u>multiplication</u>
weeka)	6NPV-1 Understand the relationship between	Add and subtract whole	Divide numbers up to 4 digits by a
weeks	powers of 10 from I hundredth to 10 million, and	numbers with more than 4	two-digit whole number using the
	use this to make a given number 10, 100, 1,000.	digits, including using formal	formal written method of long
	tenth, I hundredth or I thousandth times the size	written methods (columnar	division, and interpret remainders as
	(multiply and divide by 10, 100 and 1,000).	addition and subtraction)	whole number remainders, fractions,
	(11 that pag a the account by 10, 100 at the 1,000).	Catalance V Carlos Sanzar Catalan V	or by rounding, as appropriate for
	6NPV-2 Recognise the place value of each digit	6AS/MD-1 Understand that 2	the context
	in numbers up to 10 million, including decimal	numbers can be related	
	fractions, and compose and decompose numbers	additively or multiplicatively,	Divide numbers up to 4 digits by a
	up to 10 million using standard and non-	and quantify additive and	two-digit number using the formal
	standard partitioning.	multiplicative relationships	written method of short division
	8	(multiplicative relationships	where appropriate, interpreting
	6NPV-3 Reason about the location of any	restricted to multiplication by	remainders according to the context
	number up to 10 million, including decimal	a whole number).	6AS/MD-1 Understand that 2
	fractions, in the linear number system, and round	,	numbers can be related additively or
	numbers, as appropriate, including in contexts.	6AS/MD-1 Use a given	multiplicatively, and quantify
		additive or multiplicative	additive and multiplicative
	6NPV-4 Divide powers of 10, from I hundredth to	calculation to derive or	relationships (multiplicative
	10 million, into 2'. 4. 5 and 10 equal parts, and	complete a related calculation,	relationships restricted to
		using arithmetic properties,	multiplication by a whole number).
			,

	read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.		inverse relationships, and place-value understanding. 6AS/MD-3 Solve problems involving ratio relationships. 6AS/MD-4 Solve problems with 2 unknowns.	6AS/MD-I Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. 6AS/MD-3 Solve problems involving ratio relationships.
TERM I:2	Week 9 Order of Operations	Week 10 & Week 11 Fractions . Decimals and Percentages	Week 12 & Week 13 Measurement	6AS/MD-4 Solve problems with 2 unknowns. Week 14 & Week 15 Geometry (Properties of Shapes)
(7 weeks) Mock SATs week???	use knowledge of the order of operations to carry out calculations involving the four operations. solve multi-step problems. use estimation to check answers and determine levels of accuracy.	6F-I Recognise when fractions can be simplified, and use common factors to simplify fractions. 6F-2 Express fractions in a common denomination and use this to compare (and order) fractions that are similar in value.	6NPV-4 Divide powers of 10, from I hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

TERM		off-3 Compare fractions with different denominators, including fractions greater than I, using reasoning, and choose between reasoning and common denomination as a comparison strategy. Find fractions of amounts	\\/l. 20	\\/.al. 2l
2:I	Fractions, Decimals and Percentages	Week 18 and 19 Geometry	Week 20 Statistics	Week 21
	Week 16 and Week	doning	Statustics	Algebra
	17	Week 21	Number day	
Mock	recall and use	recognise angles where	Interpret and construct pie charts and line graphs and use	use simple formulae
SATs week	equivalences between simple fractions.	they meet at a point, are on a straight line, or are	these to solve problems	generate and describe linear number sequences
16	decimals and	vertically opposite, and	calculate and interpret the mean	express missing number problems
	noncontagos including	lind missing angles	Culture di la dila pi co di la lilicato	CASA COSA TILOSON OS TICONOS PARA COSA TICO
(6 weeks)	percentages, including in different contexts	find missing angles	as an average.	algebraically

TERM	Week 22 and Week 23	Week 24 and Week 25	Week 26 and Week 27
2:2	Geometry	Fractions and Decimals	Ratio and Proportion
	Position and Direction		·
(6	describe positions on the full coordinate grid (all	use common factors to	solve problems involving the relative
weeks)	four quadrants) draw and translate simple	simplify fractions; use common	sizes of 2 quantities where missing
	shapes on the coordinate plane, and reflect them in the axes.	multiples to express fractions	values can be found by using integer multiplication and division facts
		in the same denomination	The production of the answer of press
		compare and order fractions,	solve problems involving the
		including fractions >	calculation of percentages [for
			example, of measures and such as 15% of 360 and the use of
		Find fractions of amounts	percentages for comparison
		add and subtract fractions	
		with different denominators	solve problems involving similar shapes where the scale factor is
		and mixed numbers, using the	known or can be found
		concept of equivalent fractions	V
		multiply simple pairs of proper	solve problems involving unequal
		fractions, writing the answer in	sharing and grouping using knowledge of fractions and multiples
		its simplest form [for example,	a concern of process
		$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$	
		** Z= 0]	
		divide proper fractions by	
		whole numbers [for example, $\frac{1}{3}$]	
		1	
		$\div 2 = \overline{6}$	

associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple $\frac{3}{100}$ identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places multiply one-digit numbers with up to 2 decimal places by whole numbers use written division methods in cases where the answer has up to 2 decimal places solve problems which require answers to be rounded to specified degrees of accuracy 6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.

TERM 3:l	Week 28 and Week 29	6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value. 6F-3 Compare fractions with different denominators, including fractions greater than I, using reasoning, and choose between reasoning and common denomination as a comparison strategy. Week 30 and Week 31	Week 32 and Week 33
3:1	SATS Preparation	SATS Preparation	Measures
(6 weeks) SATs week	Volume	Handling data – Pie charts Mena median, mode	 use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa

TERM 3:2	Week 314 - Week 140	Week 314 - Week 140	 recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³] Week 34 - Week 40
(7 weeks)	Consolidation	Consolidation	Consolidation