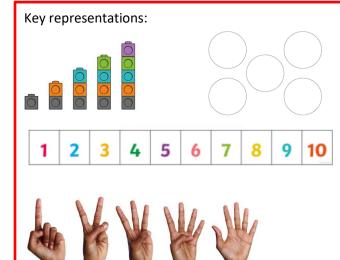
St Denys Primary School Whole School Overview

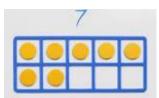
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Reception	Subitising 1-	Counting,	Composition	Composition	Comparison	Counting,	Comparison	Composition	Subitise	Composition	Shape and	·
	ь	ordinality and	of 5	of 6 and 7	of quantities to 10	ordinality and	of quantities to 10	of 7, describe	doubles to 10	to 10, focus on odds and	properties, red nam	-
		cardinality				cardinality		parts of a		evens		· ·
		1-5				6-10		whole set				
Year 1		Number			Number		Number		Measurement		Measur	ement
	Place	e value with	in 20	Additio	Addition and subtraction		Place value within Length an		d height	d height Mass and volume		
					within 20		50					
Year 2	Measurement			Number			Measurement		Measurement			
	Mo	ney		Multiplication and Division		Length and height		Mass, capacity and temperature				
Year 3		Number		Measurement		Number		N	Measuremen	t		
	Multipl	ication and	Division	Length and Perimeter		Fractions		Mass and capacity				
Year 4		Number		Measu	rement		Nun	nber			Number	
	Multipl	ication and	Division	Length and	ngth and Perimeter Fra		Frac	Fractions		Decimals		
Year 5		Number		Nun	Number Measu		urement Number		Statistics			
	Multiplication and Division		Frac	tions	Perimete	er and Area Decimals a		Is and Percentages				
Year 6	Nun	nber	Number		Nun	nber	Nun		Measu	rement	Stati	stics
	Ra	Ratio Dec		mals	Algebra		Fractions, Decimals		Area, Perimeter and			
							and Perd	and Percentages volu		ume		

- Recognise die patterns to 6
- Recognise numerals 1-5 and match them to quantities
- Subitise linear and paired arrangements of up to 5 dots and use skills of conceptual subitising to describe parts of a whole set
- Order numbers from 1-5 and quantities to 10
- Know 5 can be partitioned into 4 & 1, 3 & 2.
- Understand and represent 6, 7 and 8 as '5 and a bit'
- Use 'more than', 'fewer than' and 'an equal number' to describe quantities and say when they can see more, fewer or an equal number.
- Describe the '1 more, 1 less' relationship of numbers to 10
- Notice when numbers are increased or decreased and explain their reasoning
- Say when a pattern is / is not a double and make, visualise, represent and conceptually subitise doubles patterns to double 5.
- Sort and re-sort objects according to attributes described by an adult (colour, size, function, shape etc) and that they choose themselves
- Sort Numberblocks according to 'odd tops' and 'even blocks'
- Show intentionality in selecting shapes for a purpose, such as cylinders to roll
- Make a range of constructions, including enclosures, and talk about the decisions they have made
- See shapes in different orientations and recognise that they are still that shape
- Recognise a range of triangles and say how they know what they are
- Begin to use common 2D shape names















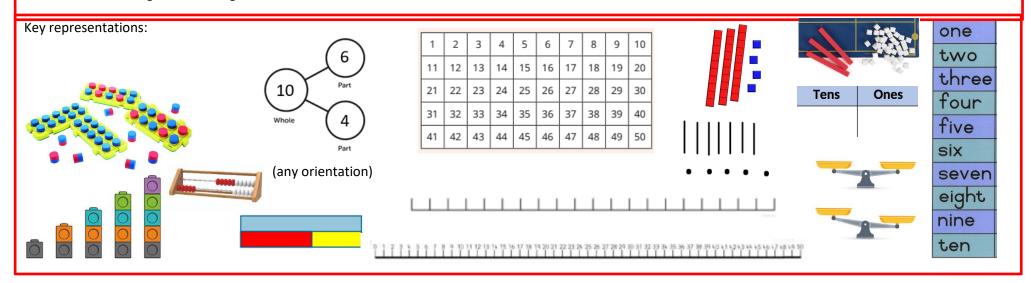
Week	Focus	Focus numbers	Key objectives
1	Subitising	1-6	Recognise die patterns to 6
			 Recognise numerals 1-5 and match them to quantities
			 Subitise linear and paired arrangements of up to 5 dots
2	Counting, ordinality and	1-5	Recognise numerals 1-5
	cardinality		Order numbers from 1-5
			Match numerals to quantities in order
			 See the staircase pattern and recognise that each number is 1 more
	6 "	_	Notice when we have 1 more and do not have 1 more.
3	Composition	5	Understand that 5 can be partitioned into different parts
			Show ways of making 5 on their fingers And 1 2 0 2
			Know 5 can be partitioned into 4 & 1, 3 & 2. Here what they know about 5 to find a hidden number.
4	Commonition	6.7	 Use what they know about 5 to find a hidden number. Use fingers and double dice frames to represent 6 as '5 and a bit', '5 and 1 more'
4	Composition	6, 7	
5	Comparison	to 10	 See that '5 and 2 more' make 7 use 'more than' and 'fewer than' to describe quantities
3	Companson	10 10	
			 say when they can see that someone has more or fewer of the same kind of object know that it is quantity – not colour, size or type of object – that determines if 1 set has more or fewer items than another.
			Whow that it is quantity — not colour, size of type of object — that determines in 1 set has more of fewer items than another. Use the words 'an equal number' and say when they can see an equal number
6	Counting, ordinality and	6-8	Ose the words an equal number and say when they can see an equal number Count aloud and revisit the principles of counting
0	counting, ordinality and cardinality	0-6	• Explore and use generalised statements to describe the `5 and a bit' composition of numbers to 10 (special focus 6-8)
	Cardinality		Describe the `1 more, 1 less' relationship of numbers to 10 (special locus 0-0)
			Work together to order numbers between 1 and 10, noticing the '5 and a bit' structure.
7	Comparison	8	Explain how to order quantities to 10
,	companison		Understand that 8 is '5 and 3 more'
			Reason about which numbers are 'more than' others
			 Notice when numbers are increased or decreased and explain their reasoning
8	Composition	7	See that 7 can be composed in different ways; including using the `5 and a bit' structure
	p		 use skills of conceptual subitising to describe parts of a whole set
			 visualise arrangements and use gestures to describe the numbers within a whole set.
9	Subitising	to 10 especially	use conceptual subitising to derive dice patterns to 8
		doubles	Say when a pattern is / is not a double
			Make doubles patterns
			 Visualise doubles patterns to 5 and 5
10	Composition	to 10	Recognise ways objects are similar and different to each other
		recognising	 Sort objects according to attributes described by an adult (colour, size, function, shape etc)
		odds and evens	 Sort and resort objects according to attributes they choose
			 Use their fingers to represent doubles and not doubles
			Describe attributes of the Numberblocks
			 Sort Numberblocks according to 'odd tops' and 'even blocks'
			 Investigate patterns of doubles in models of the Numberblocks
11-12	Shape and space	-	 Show intentionality in selecting shapes for a purpose, such as cylinders to roll
			 Make a range of constructions, including enclosures, and talk about the decisions they have made
			 See shapes in different orientations and recognise that they are still that shape
			 Recognise a range of triangles and say how they know what they are
			Begin to use common 2D shape names

St Denys Primary School Year 1 Overview

Autumn term consolidation:

- Write numbers 0-10 in words
- Reading equations

- Fluently count forwards and backwards within 50 from any number
- Represent groups of objects with manipulatives and numerals (0-50)
- Write numbers 0-20 in words
- See and understand the '10 and a bit' structure of teen numbers: write teen numbers accurately in digits and say what each digit represents
- Find one more and one less than any number within 50
- Estimate, identify and represent numbers 0-50 on a numberline, including finding the midpoint
- Compare and order numbers to 50, including using inequality symbols
- Add and subtract by counting on/back within 20, using number bonds, using near doubles and finding the difference
- Find and make number bonds to 20
- Calculate, represent and recall doubles within 20 (up to double 10)
- Solve missing number problems with addition and subtraction
- Compare length, height, mass and capacity
- Measure length, height, mass and capacity using non-standard units
- Measure length in cm using a ruler



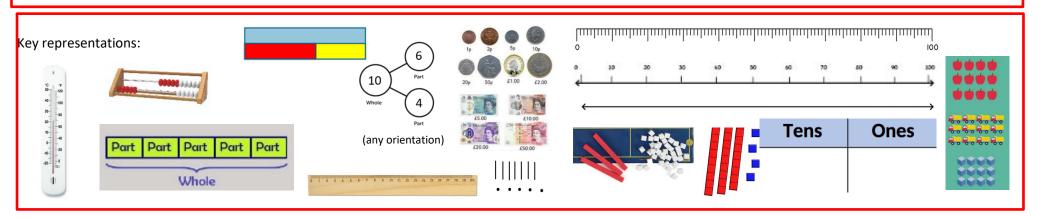
St Denys Primary School
Year 1 Overview

	Week 1 Week 2 Week 3	Week 4 Week 5 Week 6	Week 7 Week 8	Week 9 Week 10	Week 11 Week 12
Unit title	Number	Number	Number	Measurement	Measurement
	Place value within 20	Addition and subtraction within 20	Place value within 50	Length and height	Mass and volume
Key learning objectives	 Fluently count forwards and backwards within 20 from any number Represent groups of objects with manipulatives and numerals (0-20) Write numbers 0-20 in words See and understand the '10 and a bit' structure of teen numbers Write teen numbers accurately in digits and say what each digit represents Know that 10 ones = 1 ten and 20 = 2 tens = 20 ones Find 1 more and 1 less than any number within 20 Estimate, identify and represent numbers 0-20 on a numberline, including finding the midpoint Compare and order numbers to 20, including using inequality symbols 	 Add by counting on within 20 Add and subtract ones using number bonds Find and make number bonds to 20 Calculate, represent and recall doubles within 20 (up to double 10) Represent when an addition is a near double and use this knowledge to calculate the total Subtract by counting back within 20 Subtract by finding the difference Find and represent fact families for addition and subtraction Solve missing number problems with addition and subtraction 	 Fluently count forwards and backwards within 50 from any number Represent groups of objects with manipulatives and numerals (0-50) Count in multiples of 10 to and from 50 and know how many tens are in each multiple of 10 Count large groups of objects by grouping into tens and ones Partition numbers into tens and ones Find 1 more and 1 less than any number within 50 Estimate, identify and represent numbers 0-50 on a numberline, including finding the midpoint Compare and order numbers to 50, including using 	Compare lengths and heights of pairs of objects using language such as "longer than", "shorter than", 'equal to' and "taller than". understand that height is a type of length measure the lengths and heights of objects, using non-standard units of measure, understanding the importance of using a consistent unit of measure measure the lengths and heights of objects using a ruler and a standard unit of measure: centimetres. Give an object's measurement to the nearest cm when needed	Assessment Compare the mass of 2 objects including on a balance scale Use non -standard units to measure mass and compare the mass of 2 objects measured in this way describe the volume in a container using phrases such as "empty", "nearly empty", "nearly empty", "nearly is the maximum amount an object can hold compare volumes held in containers which are the same and different measure and compare the capacity of different containers using non-standard units of measure
Additional	NCETM PD materials: 1.8, 1.10	NCETM PD materials: 1.5, 1.6, 1.7	inequality symbols NCETM PD materials: 1.8, 1.9	Measures questions to	Measures questions to
Additional resources / planning links	1-20 Animals Aplenty by Katie Viggers Numberblocks 11-20 book (SEND resource) Numberblocks Teen episodes (Series 3 & 4) esp. Tween Scenes, I can count to 20	Numberblocks The Legend of Big Tum	One is a Snail, Ten is a Crab	consolidate number and place value understanding across NCETM Y1 materials	consolidate number and place value understanding across NCETM Y1 materials WR Spring Assessment Paper 1 & 2
Mastering Number focus	Pupils will continue to explore the composition of numericularity structures and the related language (without the use of explore the composition of each of the numbers 7 are explore the composition of odd and even numbers, two even parts, and that odd numbers can be composed identify the number that is two more or two less that more/less than an odd number is the next/previous on number is the next/previous even number.	 explore the aggregation and partitioning structures of addition and subtraction through systematically partitioning and re-combining numbers within 10 and connecting this to the part-part-whole diagram, including using the language of parts and wholes explore the augmentation and reduction structures of addition and reduction using number stories, including introducing the 'first, then, now' language structure 			

Autumn term consolidation:

- finding the difference as a structure of subtraction
- · Addition and subtraction problems, including missing number problems, determining which operation to use
- 2D and 3D shape including lines of symmetry

- · Recognise coins and their value
- Recognise and use symbols for £ and p
- Count money in pounds and pence to 100
- Choose notes and coins to make a given value and find different combinations of coins that equal the same amount of money
- Compare amounts of money including using inequality symbols
- Using the knowledge that £1 = 100p, find different ways of making £1.
- Solve problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- Recognise and make equal groups and find their total using repeated addition
- Recognise the x symbol and use it to write calculations representing equal groups
- Identify and write multiplication equations and draw pictures to represent them
- Understand that multiplication is commutative
- Identify and represent multiplication equations in arrays
- Make equal groups by grouping and sharing
- Count accurately in 2s, 10s and 5s and link this to understanding and recalling the 2, 10 and 5 times table.
- Use their knowledge of times tables to divide by 2, 10 and 5.
- Double and halve numbers and understand that they are multiplying or dividing by 2
- Identify whether numbers are odd or even and understand that even numbers are divisible by 2
- Measure lengths and heights in cm and m; measure mass in g and kg; measure volume in ml and l. Choose the most appropriate unit of measure.
- Compare and order lengths, heights, mass and volume
- Solve one and two step problems involving length, height, mass, volume and capacity using all 4 operations
- Use the language of temperature and use thermometers to measure temperatures in degrees Celsius



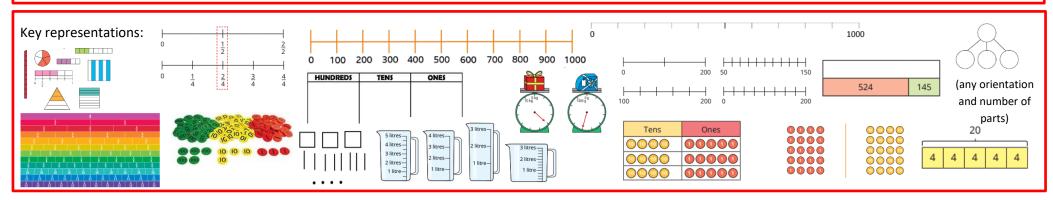
	Week 1 Week 2	Week 3 Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Unit title	Measurement		Number			Measu	rement		Measuremen	t
	Money	Multip	lication and div	ision		Length a	Length and height		Mass, capacity and temperature	
Key learning objectives	Recognise coins and their value Recognise and use symbols for £ and p Count money in pounds and pence to 100 Choose notes and coins to make a given value Find different combinations of coins that equal the same amount of money Compare amounts of money including using inequality symbols Use the knowledge that £1 = 100p, find different ways of making £1. Solve problems in a practical context involving addition and subtraction of money of the same unit, including giving	 Recognise and make equal groups and find their total using repeated addition Recognise the x symbol and use it to write calculations representing equal groups Identify and write multiplication equations and draw pictures to represent them Understand that multiplication is commutative Identify and represent multiplication equations in arrays Make equal groups by grouping and sharing Count accurately in 2s, 10s and 5s and link this to understanding and recalling the 2, 10 and 5 times table. Use their knowledge of times tables to divide by 2, 10 and 5. Double and halve numbers and understand that they are multiplying or dividing by 2 Identify whether numbers are odd or even and understand that even numbers are divisible by 2 Explore and identify links between the 5 and 10 times tables 				Measure lengths and heights in cm using a ruler Measure lengths and heights in m using metre sticks and tape measures Compare and order lengths and heights Solve one and two step problems involving length and height, using all 4 operations		 Measure mass in g and kg (numbers to 100), including choosing which unit will be more appropriate, and compare the mass of different objects Measure volume in ml and l (numbers to 100), including choosing which unit will be more appropriate, and compare volumes Use the language of temperature and use thermometers to measure temperatures in degrees Celsius Solve one and two step problems involving mass, volume and capacity, using all 4 operations 		
Additional resources / planning links	change NCETM 2.1 Measures questions to consolidate number and place value understanding across NCETM Y2 materials	NCETM	: 2.2, 2.3, 2.4, 2.	.5, 2.6		consolidate nui	questions to mber and place randing across 2 materials	place value u	tions to consolida nderstanding acro materials pring Paper	oss NCETM Y2
Mastering Number focus	Pupils will have an opportunity to use their knowledge of the composition of numbers within 10 to calculate within 20; they will explore the links between the numbers in the linear number system within 10 to numbers within 100, focusing on multiples of 10 and the midpoint of 50. Pupils will: explore how the numbers of 10 and the midpoint of 50. Pupils will: explore how the numbers 6 to 9 can be doubled using the '5 and a bit' and '10 and a bit' structure use doubles to calculate near doubles use bonds of 10 to reason about bonds of 20, in which the given addend is greater than 10			a 10 to	use thbounduse th	ieir knowledge of t dary	he composition of of the linear numb	three addends that numbers within 20 her system to 10 to nts	to add and subtra	
		ls within 10 to calculate within 20, w	•							

St Denys Primary School Year 3 Overview

Autumn term consolidation:

- Multi-step problems & making decisions about which operation to use to solve a problem
- Identifying numbers as multiples of 2, 5, 10, 2, 4, 8, 3

- Recognise multiples of 10 and multiply 1 and 2 digit numbers by 10
- Use existing times tables knowledge to scale facts by 10 e.g. $3 \times 4 = 12$, $30 \times 4 = 120$; $12 \div 3 = 4$, $120 \div 4 = 30$
- Use the symbols < > and = to compare groups using multiplication and division structures, using knowledge of the structure of multiplication rather than calculating
- Multiply 2 digit by 1 digit numbers, including with exchanges, using the expanded column method
- Divide a 2-digit number by a 1 digit number, including where exchanges are required and with and without remainders, using standard and flexible partitioning and drawing on times tables knowledge
- Understand multiplication as scaling 'There are times as many'
- Solve correspondence problems by finding all possible combinations and by using multiplication to calculate the total number of possibilities.
- Measure accurately in metres, centimetre and millimetres, including combining more than 1 unit e.g. 1m 20cm
- Know there are 100cm in 1m and 10mm in 1cm and use this knowledge to convert lengths, including when they are not multiples of 10/100
- Choose the most appropriate unit of measure to use
- Compare and order lengths using comparison language and inequality symbols
- · Add and subtract lengths, including where the units of measurement are different
- Know that perimeter is the distance around the outside of a closed 2-D shape and find perimeters by measuring and by calculating
- Know that a fraction is a part of a whole and the whole is divided into equal parts
- Correctly use the vocabulary of numerator and denominator, and understand the role of each
- Compare and order unit and non-unit fractions
- Understand that when the numerator of a fraction is equal to its denominator, then the fraction is equivalent to 1 whole and use this knowledge to make the whole with fractions with the same denominator
- Use fractions knowledge to interpret scales in measures contexts
- Represent and count fractions on a number line
- Find equivalent fractions by comparing number lines and bar models
- Use scales to read measurements knowing the different group sizes when 100 is divided into 2, 4, 5, 10 equal parts and extend this to other multiples of 100.
- Measure mass in kg and g and capacity and volume in I and ml
- Know that 1kg = 1000g and that 1l = 1000ml and use this knowledge to make amounts of grams up to 1 kg and amounts of millilitres up to 1 using addition and subtraction
- Know that 1/2kg = 500g and 1/4kg is 250g. Know that 1/2l = 500ml and 1/4l is 250ml.
- Compare, add and subtract mass, volume and capacity including mixed units.



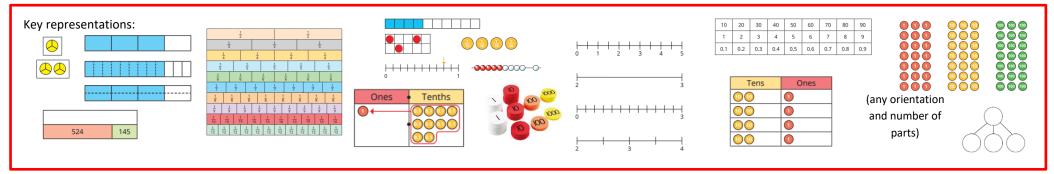
	Week 1 Week 2 Week 3	Week 4 Week 5 Week 6	Week 7 Week 8 Week 9	Week 10 Week 11 Week 12	
Unit title	Number	Measurement	Number	Measurement	
	Multiplication and Division	Length and Perimeter	Fractions	Mass and capacity	
Key learning objectives	 Recognise multiples of 10 and multiply 1 and 2 digit numbers by 10 Use existing times tables knowledge to scale facts by 10 e.g. 3 x 4 = 12, 30 x 4 = 120; 12 ÷3 = 4, 120 ÷ 4 = 30 Use the symbols <> and = to compare groups using multiplication and division structures, using knowledge of the structure of multiplication rather than calculating Multiply 2 digit by 1 digit numbers, including with exchanges, using the expanded column method Divide a 2-digit number by a 1 digit number, including where exchanges are required and with and without remainders, using standard and flexible partitioning and drawing on times tables knowledge Understand multiplication as scaling 'There are _ times as many' Solve correspondence problems by finding all possible combinations and by using multiplication to calculate the total number of possibilities. 	 Measure accurately in metres, centimetre and millimetres, including combining more than 1 unit e.g. 1m 20cm Know there are 100cm in 1m and 10mm in 1cm and use this knowledge to convert lengths, including when they are not multiples of 10/100 Choose the most appropriate unit of measure to use compare and order lengths using comparison language and inequality symbols Add and subtract lengths, including where the units of measurement are different Know that perimeter is the distance around the outside of a closed 2-D shape and find perimeters by measuring and by calculating 	 Know that a fraction is a part of a whole and the whole is divided into equal parts Correctly use the vocabulary of numerator and denominator, and understand the role of each Compare and order unit and nonunit fractions Understand that when the numerator of a fraction is equal to its denominator, then the fraction is equivalent to 1 whole and use this knowledge to make the whole with fractions with the same denominator Use fractions knowledge to interpret scales in measures contexts Represent and count fractions on a number line Find equivalent fractions by comparing number lines and bar models 	 Use scales to read measurements – knowing the different group sizes when 100 is divided into 2, 4, 5, 10 equal parts and extend this to other multiples of 100. Measure mass in kg and g Know that 1kg = 1000g and use this knowledge to make amounts of grams up to 1 kg using addition and subtraction. Know that 1/2kg = 500g and 1/4kg is 250g. Know that 1l = 1000ml and use this knowledge to make amounts of millilitres up to 1 l using addition and subtraction. Know that 1/2l = 500ml and 1/4l is 250ml. Compare mass, volume and capacity including mixed units. Add and subtract mass, volume and capacity including mixed units. Measure capacity and volume in ml and l 	
Additional resources / planning links	NCETM: 2.13, 2.14, 2.15, 2.17	NCETM: 2.16, 2.13 length questions to consolidate number and place value understanding across NCETM Y1-4 materials	NCETM: 3.1, 3.2, 3.3, 3.4, 3.7	NCETM: questions to consolidate number and place value understanding across NCETM Y1-4 materials WR Spring paper 1 & 2	
TTRS focus	Consolidate	and develop fluency in all taught so f	ar: 2x, 3x, 4x, 5x, 8x, 10x	11x	

St Denys Primary School
Year 4 Overview

Autumn term consolidation:

Make decisions about which operation and which method to use to solve a problem, including identifying when mental strategies may be more efficient

- Know that a factor of a number is a whole number that divides into it exactly and work systematically to find factor pairs
- Use factor pair knowledge to write equivalent calculations e.g. 5x12 = 5x3x4, making decisions about calculations they will be able to solve efficiently
- Multiply and divide whole numbers by 10 and 100
- Use existing times tables knowledge to scale facts by 10 and 100 e.g. $3 \times 4 = 12$, $30 \times 4 = 120$; $12 \div 3 = 4$, $120 \div 4 = 30$
- Multiply 2 & 3 digit numbers by 1 digit numbers, using short multiplication
- Divide 2- and 3- digit numbers by 1 digit numbers, including in calculations with a remainder, using flexible partitioning
- Solve correspondence problems by finding all possible combinations and by using multiplication to calculate the total number of possibilities, including with 3 sets of items.
- Make decisions about the most appropriate method to use to solve a multiplication calculation, in a range of contexts.
- Measure in metres and kilometres and use the fact that 1 km is equal to 1,000 m to derive related facts using numbers up to 10,000
- Calculate perimeters of rectangles, rectilinear shapes and regular and irregular polygons
- · Find missing side lengths using the relationship between sides in a rectilinear shape, and when given the perimeter
- Identify how many equal parts a whole has been split into and say how many more parts are needed to make the whole
- Identify whether a fraction is a large or small amount of the whole
- Know that when the numerator is equal to the denominator then the fraction is equivalent to 1
- Count forwards and backwards in unit and non-unit fractions across whole number boundaries (count in fractions greater than 1)
- Partition mixed numbers in multiple ways
- Count, identify, label and place mixed numbers on number lines (including estimating their position on blank number lines).
- Compare and order mixed numbers
- Write mixed numbers and improper fractions and convert between the 2
- Find equivalent fractions within and greater than 1
- Add and subtract fractions and mixed numbers where the denominator is the same
- Subtract fractions from whole amounts
- Understand and represent tenths and hundredths as fractions and decimals, on place value charts and numberlines, including crossing the whole
- Understand that 10 tenths are equivalent to 1 whole, and therefore 1 whole is equivalent to 10 tenths and use this knowledge when counting forwards and backwards in tenths
- Divide 1- and 2- digit numbers by 10 and 100
- Partition hundredths into tenths and hundredths

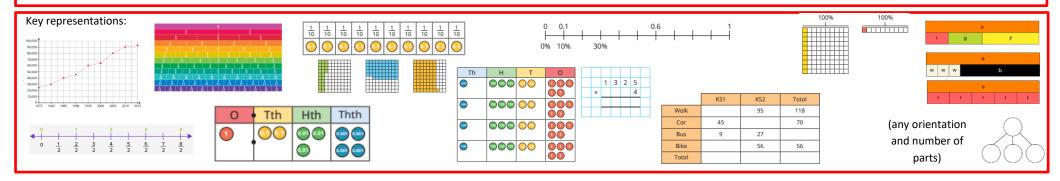


	Week 1 Week 2 Week 3	Week 4 Week 5	Week 6 Week 7 Week 8 Week 9	Week 10 Week 11 Week 12		
Unit title	Number	Measurement	Number	Number		
	Multiplication and Division	Length and perimeter	Fractions	Decimals		
Key learning objectives	 Know that a factor of a number is a whole number that divides into it exactly and work systematically to find factor pairs Use factor pair knowledge to write equivalent calculations e.g. 5x12 = 5x3x4, making decisions about calculations they will be able to solve efficiently Multiply and divide whole numbers by 10 and 100 Use existing times tables knowledge to scale facts by 10 and 100 e.g. 3 x 4 = 12, 30 x 4 = 120; 12 ÷3 = 4, 120 ÷ 4 = 30 Multiply 2 & 3 digit numbers by 1 digit numbers, using short multiplication Divide 2- and 3- digit numbers by 1 digit numbers, including in calculations with a remainder, using flexible partitioning Solve correspondence problems by finding all possible combinations and by using multiplication to calculate the total number of possibilities, including with 3 sets of items. Make decisions about the most appropriate method to use to solve a multiplication calculation, in a range of contexts. 	 Measure in metres and kilometres and use the fact that 1 km is equal to 1,000 m to derive related facts using numbers up to 10,000 Calculate perimeters of rectangles, rectilinear shapes and regular and irregular polygons Find missing side lengths using the relationship between sides in a rectilinear shape, and when given the perimeter. 	 Identify how many equal parts a whole has been split into and say how many more parts are needed to make the whole Identify whether a fraction is a large or small amount of the whole Know that when the numerator is equal to the denominator then the fraction is equivalent to 1 Count forwards and backwards in unit and non-unit fractions across whole number boundaries (count in fractions greater than 1) Partition mixed numbers in multiple ways Count, identify, label and place mixed numbers on number lines (including estimating their position on blank number lines). Compare and order mixed numbers Write mixed numbers and improper fractions and convert between the 2 Find equivalent fractions within and greater than 1 Add and subtract fractions and mixed numbers where the denominator is the same Subtract fractions from whole amounts 	 Understand and represent tenths and hundredths as fractions and decimals, on place value charts and numberlines, including crossing the whole Understand that 10 tenths are equivalent to 1 whole, and therefore 1 whole is equivalent to 10 tenths and use this knowledge when counting forwards and backwards in tenths Divide 1- and 2- digit numbers by 10 and 100 Partition hundredths into tenths and hundredths 		
Additional resources / planning	NCETM: 2.13, 2.10, 2.12, 2.14, 2.15 (partitioning only)	NCETM: 2.16	NCETM: 3.5, (3.2, 3.3, 3.4), 3.7	WR Spring paper 1 & 2 NCETM: 1.23, 1.24		
links TTRS focus	3x, 6x	3x, 6x, 9x, 12x	7x	Focus tables or all x tables mixed		

Autumn term consolidation:

- Rounding
- Adding fractions with different denominators

- Accurately use the formal method for short multiplication for 4 digit numbers x 1 digit
- Accurately use a formal method for multiplying by a 2 digit number
- Apply their knowledge of multiplication and division to solve problems, including choosing the most efficient method
- · Accurately use the formal written method for short division, including with calculations that result in a remainder
- Multiply unit and non-unit fractions and mixed numbers by integers
- Calculate a fraction of a quantity
- Use a fraction of an amount to find the whole
- find the perimeters of rectangles by measuring the sides and by calculation
- calculate the perimeters of rectilinear shapes and polygons
- use the perimeter of shapes to find missing sides
- Calculate the area of rectangles and compound shapes, using times table knowledge and multiplication strategies
- Estimate the area of non-rectilinear shapes
- Order and compare decimals with up to 3 decimal places
- Round to the nearest whole number and to 1 decimal place
- Know that "per cent" relates to "number of parts per 100"
- Represent tenths, hundredths and thousandths (as fractions, decimals and on place value charts)
- Find and recall equivalent decimals, fractions and percentages, focussing on equivalents to halves, quarters, fifths and tenths.
- Draw and interpret line graphs, including conversion graphs
- read and interpret data presented in a table, including two-way tables
- Read and interpret time tables



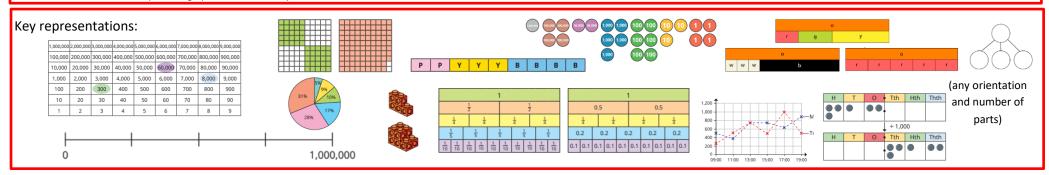
	Week 1 Week 2 Week 3	Week 4 Week 5	Week 6 Week 7	Week 8 Week 9 Week 10	Week 11 Week 12	
Unit title	Number	Number	Measurement	Number	Statistics	
	Multiplication and division	Fractions Perimeter and area		Decimals and Percentages	& consolidation	
Key learning objectives	 Accurately use the formal method for short multiplication for 4 digit numbers x 1 digit Accurately use a formal method for multiplying by a 2 digit number Apply their knowledge of multiplication and division to solve problems Accurately use the formal written method for short division, including with calculations that result in a remainder Make decisions about which method is most efficient in different contexts 	 Multiply unit and non-unit fractions and mixed numbers by integers Calculate a fraction of a quantity Use a fraction of an amount to find the whole Recognise the connection between finding a fraction of an amount and multiplying a fraction by an integer and choose which method is most efficient in different contexts 	 find the perimeters of rectangles by measuring the sides and by calculation calculate the perimeters of rectilinear shapes and polygons use the perimeter of shapes to find missing sides Calculate the area of rectangles and compound shapes, using times table knowledge and multiplication strategies Estimate the area of non-rectilinear shapes 	 Represent tenths, hundredths and thousandths (as fractions, decimals and on place value charts) Order and compare decimals with up to 3 decimal places Round to the nearest whole number and to 1 decimal place Know that "per cent" relates to "number of parts per 100" Find and recall equivalent decimals, fractions and percentages, focussing on equivalents to halves, quarters, fifths and tenths. 	Objectives taught in cross-curricular context where possible. • Draw and interpret line graphs, including conversion graphs • read and interpret data presented in a table, including two-way tables • Read and interpret time tables	
Additional resources / planning links	NCETM 2.14, 2.15, 2.23	NCETM 3.5, 3.6, 3.9	NCETM 2.16, 2.30	NCETM 3.10, 1.23, 1.24	Statistics questions to consolidate understanding across NCETM Y5 materials WR Spring Paper 1 & 2	
TTRS focus			red all tables for speed of non-routine problems			

St Denys Primary School Year 6 Overview

Autumn term consolidation:

- Multiply and divide fractions
- Solve single and multi-step fractions problems
- Find fractions of amounts and the whole amount given a fraction of it.

- Express the relationship between two numbers both additively and multiplicatively (& the inverse linking subtraction & division)
- Understand that ratio represents a multiplicative relationship between two amounts
- Use the ratio symbol: to represent the multiplicative relationship
- Identify equivalent ratios and simplify ratios
- Explore and understand similarities and differences between ratios and fractions
- Enlarge shapes and describe enlargements using scale factors
- · Apply their understanding of ratio through recognising and making scale drawings: link this to identifying similar shapes
- Solve ratio and proportion problems including recipes
- represent numbers less and greater than 1 with up to 3 decimal places using counters and place value charts, identify the values of the digits in a decimal number and partition decimal numbers in a range of ways
- know the relationship between the different place value columns
- round numbers with up to 3 decimal places to the nearest integer, tenth and hundredth
- add and subtract decimals including with different numbers of decimal places
- Multiply and divide numbers with up to 3 decimal places by 10, 100 and 1000 and by integers
- solve problems involving decimals in a range of contexts
- Use and understand the terms "input", "output", "function" and "rule"
- Explore 1 and 2 step function machines, including using the inverse to find the input when the output is given and finding a missing function
- form algebraic expressions using letters to represent numbers and find values of expressions by substituting numbers in place of the letters
- Use formulae to work out values, recognising the difference between a formula and an expression
- Represent images and contexts with equations
- Solve 1 and 2 step equations and problems with up to 2 unknowns
- Find equivalent fractions, decimals and percentages
- Understand fractions as divisions and use this knowledge to convert between fractions and decimals
- Understand percentages as 'number of parts per 100' and make more complex percentages by combining others e.g. 65% = 50%+10%+5%
- Compare and order fractions, decimals and percentages
- Find percentages of amounts and find the whole number from a given percentage
- Find the area and perimeter of rectangles and rectilinear shapes, triangles and parallelograms, and the volume of cuboids, using appropriate formulae
- Draw, read and interpret line graphs, bar charts and pie charts



St Denys Primary School
Year 6 Overview

	Week 1 Week 2	Week 3 Week 4	Week 5 Week 6	Week 7 Week 8	Week 9 Week 10	Week 11 Week 12		
Unit title	Number	Number	Number	Number	Measurement	Statistics		
	Ratio	Decimals	Algebra	Fractions, Decimals and Percentages	Area, Perimeter and			
Vov	-Express the relationship	- represent numbers less		- Find equivalent	volume - Find the area and	-Draw, read and		
Key	between two numbers	and greater than 1 with	terms "input",	fractions, decimals and	perimeter of rectangles	interpret line graphs,		
learning	both additively and	up to 3 decimal places	"output", "function" and	percentages	and rectilinear shapes	including with more		
objectives	multiplicatively (& the inverse linking subtraction	using counters and place value charts, identify the	"rule" -Explore 1 and 2 step	-Understand fractions as divisions and use this	- use the formula area =	than 1 line		
	& division)	values of the digits in a	function machines,	knowledge to convert	1/2 × base ×perpendicular	-Draw, read and interpret dual bar		
	-Understand that ratio represents a multiplicative	decimal number and partition decimal	including using the inverse to find the input when the	between fractions and decimals	height to calculate the	charts		
	relationship between two	numbers in a range	output is given and finding	-Understand percentages	area of triangles	-Read and interpret pie		
	amounts	of ways	a missing function	as 'number of parts per	-recognise that the area	charts including working		
	-Use the ratio symbol : to represent the	- know the relationship between the different	-form algebraic expressions using letters to represent	100' and make more complex percentages by	of a parallelogram can be	out the total and values of other parts when		
	multiplicative relationship	place value columns	numbers	combining others e.g.	found by using the	given the value of 1 part		
	Identify equivalent ratios and simplify ratios	-round numbers with up to 3 decimal	-find values of expressions by substituting numbers in	65% = 50%+10%+5% -Compare and order	formula area = base ×	-Link pie charts with		
	-Explore and understand	places to the nearest	place of the letters	fractions, decimals and	perpendicular height	percentages		
	similarities and differences	integer, tenth and	-Use formulae to work out	percentages	and use this formula to find the area of	-Draw pie charts		
	between ratios and fractions	hundredth -add and subtract	values, recognising the difference between a	-Find percentages of amounts	parallelograms			
	-Enlarge shapes and	decimals including with	formula and an expression	-Find the whole number	-Identify and use the			
	describe enlargements using scale factors	different numbers of decimal places	-Represent images and contexts with equations	from a given percentage.	formula volume of			
	-Apply their understanding	-Multiply and divide	-Solve 1 and 2 step		cuboid = length × width × height to calculate the			
	of ratio through	numbers with up to 3	equations		volume of cuboids			
	recognising and making scale drawings: link this to	decimal places by 10, 100 and 1000	-Solve problems with up to 2 unknowns					
	identifying similar shapes	- Multiply and divide						
	-Solve ratio and proportion problems	decimals by integerssolve problems involving						
	including recipes	decimals in a range of						
A alalisia a al	NICETNA 2 27	contexts	NICETNA 4 24	NICETNA 2 4C	NCETNA 2.4C, 2.2C	Chatiatian and a ta		
Additional resources /	NCETM 2.27	NCETM 2.29, 1.24	NCETM 1.31	NCETM 3.10	NCETM 2.16, 2.30	Statistics contexts throughout NCETM		
planning						materials		
links								
TTRS			Mixed all tables	•	-			
focus	Using x tables in routine & non-routine problems							