Mathematics National Curriculum Objective Overview



Identified areas of weakness from gap analysis: Autumn Spring Summer

EYFS

Autumn	Transition	Match, Sort and	Talk about measure	It's me 1, 2, 3	Circles and triangles	1,2, 3, 4, 5	Shapes with 4
Autuiiii	and	Compare	and patterns	Subitise	Identify and name circles and	Subitise (recognise	sides
	baseline	Compare quantities	Compare quantities	(recognise	triangles	quantities without	Identify and name
	assessment	up to 10 in different	up to 10 in different	quantities	Compare circles and triangles	counting) up to 5	shapes with 4
	'Getting to	contexts, recognising	contexts, recognising	without	Shapes in the environment		sides
	know you'	when one quantity is	when one quantity is	counting) up	Describe position	Have a deep	Combine shapes
		greater than, less	greater than, less	to 5		understanding of	with 4 sides
		than or the same as	than or the same as			number to 10,	Shapes in the
		the other quantity;	the other quantity;	Have a deep		including the	environment
				understanding		composition of	My day and night
			Explore and	of number to		each number;	
			represent patterns	10, including			
			within numbers up to	the		Compare quantities	
			10, including evens	composition		up to 10 in different	
			and odds, double	of each		contexts,	
			facts and how	number;		recognising when	
			quantities can be			one quantity is	
			distributed equally.	Compare		greater than, less	
				quantities up		than or the same as	
				to 10 in		the other quantity;	
				different			
				contexts,			
				recognising			
				when one			
				quantity is			
				greater than,			
				less than or			
				the same as			





the other			
quantity;			<u> </u>
Growing 6, 78	Length, height and	Building 9 and 10	Explore 3D shapes
Subitise (recognise quantities	time	Subitise (recognise	Recognise and
without counting) up to 5	Explore length	quantities without	name 3D shapes
	Compare length	counting) up to 5	Find 2D shapes
Have a deep understanding	Explore height		within 3D shapes
of number to 10, including	Compare height	Have a deep understanding	Use 2D shapes for
the composition of each	Talk about time	of number to 10, including	tasks
number;	Order and sequence	the composition of each	3D shapes in the
	time	number;	environment
Automatically recall (without			Identify more
reference to rhymes,		Automatically recall	complex patterns
counting or other aids)		(without reference to	Copy and continue
number bonds up to 5		rhymes, counting or other	patterns
(including subtraction facts)		aids) number bonds up to 5	Patterns in the
and some number bonds to		(including subtraction facts)	environment
10, including double facts.		and some number bonds to	
		10, including double facts.	
Compare quantities up to 10			
in different contexts,		Explore and represent	
recognising when one		patterns within numbers up	
quantity is greater than, less		to 10, including evens and	
than or the same as the		odds, double facts and how	
other quantity;		quantities can be	
		distributed equally.	
		, ,	
		Compare quantities up to	
		10 in different contexts,	
		recognising when one	
		quantity is greater than,	
		less than or the same as the	





Summer	To 20 and beyond	How many now?	Manipulate, compose and	Sharing and grouping	Visualise, build and map	Make connections
	Verbally count	Add more	decompose	Explore and represent	Identify units of repeating	Deepen
	beyond 20,	How many did I add?	Select shapes for a	patterns within	patterns	understanding
	recognising the	Take away	purpose	numbers up to 10,	Create own pattern rules	Patterns and
	pattern of the	How many did I take	Rotate shapes	including evens and	Explore own pattern rules	relationships
	counting system;	away?	Manipulate shapes	odds, double facts and	Replicate and build scenes and	
			Explain shape	how quantities can be	constructions	
			arrangements	distributed equally.	Visualise from different	
			Compose shapes		positions	
			Decompose shapes		Describe positions	
			Copy 2D shape pictures		Give instructions to build	
			Find 2D shapes within 3D		Explore mapping	
			shapes		Represent maps with models	
					Create own maps from familiar	
					places	
					Create own maps and plan	
					from story situations	



nume	Week 1-5 and write numbers from 1 to				Shape Week 11	
less Identi object includ langua (fewer Count backw any gi	ify and represent numbers us its and pictorial representation ding the number line, and use age of: equal to, more than, let), most, least it to and across 100, forwards wards, beginning with 0 or 1, iven number t, read and write numbers to erals; count in multiples of tw	and words. umber, identify one more and one and represent numbers using addition (+), so signs Add and subtract one-day 20, including zero 20, i		Week 6-10 ret mathematical statements subtraction (–) and equals (=) digit and two-digit numbers to	Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	
Read at to 20 and Given more Identification in the second	Place Value (within 20) Week 1 -3 and write numbers from 1 in numerals and words. In a number, identify one and one less ify and represent numbers objects and pictorial isentations including the over line, and use the lage of: equal to, more less than (fewer), most, it to and across 100, ards and backwards, uning with 0 or 1, or from	Represent a and related within 20 Add and sultwo-digit no including ze Solve one-s involve add using concr pictorial rep	Meek 4 – 6 and use number bonds subtraction facts btract one-digit and umbers to 20, ero tep problems that ition and subtraction, ete objects and presentations, and mber problems such as	Place Value (within 50) Week 7 – 8 Read and write numbers from 1 to 20 in numerals and words. Given a number, identify one more and one less Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Count to and across 100, forwards and backwards, beginning with 0 or 1, or from	Length and Height Week 9 - 10 Compare, describe and solve practical problems for: Lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] Measure and begin to record the following: Lengths and heights	Mass and Volume Week 11 - 12 Measure and begin to record the following: Mass/weight Capacity and volume Compare, describe and solve practical problems for: Mass/weight [for example, heavy/light, heavier than, lighter than] Capacity and volume [for example, full/empty,





	Count, read and write nur to 100 in numerals; count multiples of twos, fives an	in			Count, read and to 100 in numer multiples of two tens	als; count in				than, less than, half, ıll, quarter]
Summer	Multiplication and Division Week 1 – 3 Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	half as parts of quanti Recogn quarte	r as one of four equal of an object, shape or	Describe po	and direction Veek 6 Disition, direction The properties of the pro	Place Value (10 Week 7- 8 Read and write number to 20 in numerals and Given a number, ident more and one less Identify and represent using objects and pictorepresentations include number line, and use to language of: equal to, than, less than (fewer) least Count to and across 10 forwards and backwar beginning with 0 or 1, any given number Count, read and write to 100 in numerals; comultiples of twos, five	ers from 1 words. tify one t numbers orial ding the the more), most, 00, rds, or from numbers ount in	Money Week 9 Recognise an know the value of different denomination of coins and notes	nd lue ons	Time Week 10 - 11 Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Measure and begin to record the following: Time (hours, minutes, seconds)



Statements in blue highlight the teacher assessment framework (2018)

Autumn

Place Value Week 1 – 4

Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward

Recognise the place value of each digit in a two-digit number (tens, ones) Identify, represent and estimate numbers using different representations, including the number line

Compare and order numbers from 0 up to 100; use 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 Week 5 – 9

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 ones

A two-digit number and tens

Two two-digit numbers

Adding three one-digit numbers

Show that addition of two 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.

TAF GDS

Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. 29 + 17 = 15 + 4 +; 'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?' etc.) Solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')

Shape Week 10 – 12

Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line

Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]

Compare and sort common 2-D and 3-D shapes and everyday objects.

TAF GDS

Describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).





Use mathematical

vocabulary to describe

Week 1 – 5 Recall and use multiplication and division facts for 2, 5 and 10 multiplication and division, generated addition, mental methods, and multiplication and division, generated addition, mental methods, and multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts for 2, 5 and 10 and make deductions outside known multiplication facts for 2, 5 and 10 and make deductions outside known multiplication facts standard units to estimate and standard units to estimate and simple pictograms, tally Week 6 – 7 Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value fractions 3 1, 4 1, 4 2 and 4 3 of a length, shape, set of objects or quantity. Write simple fractions for example, 2 1 of 6 = 3 and recognise the equivalence of 4 2 and 2 1. Week 8 – 11 Week 8 – 12 Week 8 – 11 Week 8 – 12 Week 8 – 11 Week 8 – 12 Week 9 – 14 Recognise, find, name and write the time to five minute factors or quantity. Wite simple fractions for example, 2 1 of 6 = 3 and recognise, ind, name and write them including quarter past/to the hour and recognise, including the multiplication for example, 2 1 of 6 = 3 and recognise, including the multiplication for example, 2 1 of 6 = 3 and recognise, including the multipli		NA Intelligence and District				1	Fig. 12.	1	
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Week 1 – 2 Choose and use appropriate standard units to estimate and Simple pictograms, tally Week 3 – 4 Week 5- 6 Week 5- 6 Choose and use appropriate standard units to estimate and simple pictograms, tally Week 5- 6 Choose and use appropriate standard units to estimate and combinations of		I and the production radios							
Week 1 – 2 Choose and use appropriate standard units to estimate and Simple pictograms, tally Week 3 – 4 Unterpret and construct simple pictograms, tally Week 5 - 6 Choose and use appropriate standard Choose and use appropriate standard Standard units to estimate and Week 7 - 9 Choose and use appropriate standard units to estimate and	Summer	Time		Statistics	Length a	nd Height	Mass, capacity and to	emperature	Position and Direction
standard units to estimate and simple pictograms, tally appropriate standard standard units to estimate and combinations of		Week 1 – 2		Week 3 – 4	Wee	k 5- 6	Week 7 -	9	Week 10 - 11
		Choose and use appropriate	Interpre	t and construct	Choose and i	use	Choose and use appr	opriate	Order and arrange
		standard units to estimate and	simple p	ictograms, tally	appropriate:	standard	standard units to est	imate and	combinations of
				-			measure length/heig	ht in any	mathematical objects in
direction (m/cm); mass (kg/g); simple tables measure length/height in direction (m/cm); mass (kg/g); patterns and sequences			-	•	measure lens	gth/height in		-	_

any direction (m/cm);

mass (kg/g); temperature

temperature (°C); capacity

(litres/ml) to the nearest

Ask and answer simple

questions by counting the

temperature (°C); capacity

(litres/ml) to the nearest







appropriate unit, using rulers,	number of objects in each	(°C); capacity (litres/ml)	appropriate unit, using rulers,	position, direction and
scales, thermometers and	category and sorting the	to the nearest	scales, thermometers and	movement, including
measuring vessels	categories by quantity	appropriate unit, using	measuring vessels	movement in a straight line
	Ask and answer questions	rulers, scales,	Compare and order lengths,	and distinguishing between
	about totalling and	thermometers and	mass, volume/capacity and	rotation as a turn and in
	comparing categorical data.	measuring vessels	record the results using >, < and	terms of right angles for
	TAF GDS	Compare and order	=	quarter, half and three-
	Read scales where not all	lengths, mass,		quarter turns (clockwise
	numbers on the scale are	volume/capacity and		and anticlockwise).
	given and estimate points in	record the results using >,		

< and =

between





Autumn	Place Value		Addition	and subtraction	Multiplication
10.00	Week 1 - 3		W	/eek 4 – 8	Week 9 – 12
	Count from 0 in multiples of 4, 8, 50 and		Add and subtract number	s mentally, including:	Recall and use multiplication and division facts
	100; find 10 or 100 more or less than a g	iven	A three-digit number and	ones	for the 3, 4 and 8 multiplication tables
	number		A three-digit number and	tens & a three-digit number and	
	Recognise the place value of each digit in	n a	hundreds		
	three-digit number (hundreds, tens, one	s)	Add and subtract number	s with up to three digits, using	
	Compare and order numbers up to 1000)	formal written methods o	f columnar addition and	
	Identify, represent and estimate number	rs	subtraction		
	using different representations		Estimate the answer to a	calculation and use inverse	
	Read and write numbers up to 1000 in		operations to check answ		
	numerals and in words			missing number problems, using	
	Solve number problems and practical		number facts, place value	, and more complex addition and	
	problems involving these ideas.		subtraction.		
Spring	Multiplication and division	ı	Length and Perimeter	Fractions	Mass and capacity
	Week 1 – 3		Week 4 – 6	Week 7 – 9	Week 10 - 12
	Write and calculate mathematical		sure, compare, add and	Count up and down in tenths;	Measure, compare, add and subtract: mass
	statements for multiplication and		act: lengths (m/cm/mm)	recognise that tenths arise from	(kg/g); volume/capacity (l/ml)
	division using the multiplication tables		sure the perimeter of	dividing an object into 10 equal	
	that they know, including for two-digit	simp	le 2-D shapes	parts and in dividing one-digit	
	numbers times one-digit numbers,			numbers or quantities by 10	
	using mental and progressing to			Recognise, find and write fractions	
	formal written methods			of a discrete set of objects: unit	
	Solve problems, including missing			fractions and non-unit fractions	
	number problems, involving			with small denominators	
	multiplication and division, including			Recognise and use fractions as	
	positive integer scaling problems and			numbers: unit fractions and non-	
	correspondence problems in which n			unit fractions with small	
	objects are connected to m objects.			denominators	
				Recognise and show, using	
				diagrams, equivalent fractions with	1
				small denominators	







Summer	
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Fractions Week 1 – 2

the same denominator within one whole [for example, 75+71 = 761 Compare and order unit fractions, and fractions with the same denominators

Solve problems that involve all of

the above.

Add and subtract fractions with

Money Week 3 - 4

Add and subtract amounts of money to give change, using both £ and p in practical contexts

Time Week 5 - 7

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; 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].

Shape Week 8 – 9

Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn 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.

Statistics Week 10 – 12

Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

three numbers



	Disco Vol.	A diditi	dia data andrea	1	AA bitaltaatta aad Ditti
Autumn	Place Value		d subtraction	Area	Multiplication and Division
	Week 1 – 4		k 5 - 7	Week 8	Week 9 - 11
	Count in multiples of 6, 7, 9, 25 and		s with up to 4 digits using		Recall multiplication and division facts for
	1000	the formal written metho		What is area?	· '
	Find 1000 more or less than a given	and subtraction where ap	• •	Count squares	·
	number	Estimate and use inverse	operations to check	Make shapes	, ,
	Count backwards through zero to	answers to a calculation		Compare area	ns multiplying by 0 and 1; dividing by 1;
	include negative numbers	Solve addition and subtra	ction two-step problems		multiplying together three numbers
	Recognise the place value of each digit	in contexts, deciding whic	ch operations and		Recognise and use factor pairs and
	in a four-digit number (thousands,	methods to use and why.			commutativity in mental calculations
	hundreds, tens, and ones)				
	Order and compare numbers beyond				
	1000				
	Identify, represent and estimate				
	numbers using different				
	representations				
	Round any number to the nearest 10,				
	100 or 1000				
	Solve number and practical problems				
	that involve all of the above and with				
	increasingly large positive numbers				
	Read Roman numerals to 100 (I to C)				
	and know that over time, the numeral				
	system changed to include the				
	concept of zero and place value.				
	· ·				
Spring	Multiplication and division	Length and Perimeter	Fractions		Decimals
-1	Week 1 – 3	Week 4 - 5	Week 6 – 9		Week 10 - 12
	Recall multiplication and division facts	Measure and calculate	Recognise and show, usin	g diagrams,	Recognise and write decimal equivalents of
	for multiplication tables up to 12 × 12	the perimeter of a	•		any number of tenths or hundredths
	Use place value, known and derived	rectilinear figure	fractions		Recognise and write decimal equivalents to 4
	facts to multiply and divide mentally,	(including squares) in	Count up and down in hu	ndredths;	1,21,43
	including: multiplying by 0 and 1;	centimetres and metres	recognise that hundredth	s arise when	Find the effect of dividing a one- or two-digit
	dividing by 1; multiplying together	Find the area of	dividing an object by one	hundred and	number by 10 and 100, identifying the value
	including: multiplying by 0 and 1;	centimetres and metres	recognise that hundredth	s arise when	Find the effect of dividing a one- or two-digit

dividing tenths by ten.





Recognise and use factor pairs and commutativity in mental calculations Multiply two-digit and three-digit numbers by a one-digit number using formal written layout Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

rectilinear shapes by counting squares
Convert between different units of measure

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Add and subtract fractions with the same denominator

Solve simple measure and money problems involving fractions and decimals to two decimal places.

of the digits in the answer as ones, tenths and hundredths

Round decimals with one decimal place to the nearest whole number

Compare numbers with the same number of decimal places up to two decimal places Solve simple measure and money problems involving fractions and decimals to two decimal places.

Summer

Decimals Week 1 - 2

Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to 4 1,21,43 Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of

Money Week 3 – 4

Estimate, compare and calculate different measures, including money in pounds and pence
Convert between different units of measure

Time Week 5 – 6

Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Shape Week 8 – 9

Compare and Interpret and classify geometric present discrete shapes, including and continuous data using quadrilaterals and triangles, based on appropriate graphical methods, their properties including bar charts and sizes Identify acute and and time graphs. Solve comparison, obtuse angles and sum and difference compare and order problems using angles up to two information right angles by size Identify lines of presented in bar symmetry in 2-D charts, pictograms, shapes presented tables and other in different graphs. orientations Complete a simple symmetric figure with respect to a

Statistics Position/Direction Week 10 Week 11 – 12

Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon.



decimal places up to two	specific line of	
decimal places	symmetry.	
Solve simple measure and		
money problems		
involving fractions and		
decimals to two decimal		
places.		





Autumn

Place Value Week 1 – 3

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit

Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Solve number problems and practical problems that involve all of the above Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Addition and subtraction Week 4 - 5

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Multiplication/Division Week 6 – 8

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Recognise and us square numbers and cube numbers. and the notation for squared (2) and cubed (3)

Fractions Week 9 - 12

Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with a total greater than 1 Add to a mixed number Add 2 mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole Subtract 2 mixed numbers

all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Add and subtract fractions with the same denominator and denominators that are multiples of

the same number

compare and order fractions whose denominators are





Spring

Multiplication and division Week 1 - 3

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Multiply and divide numbers mentally drawing upon known facts
Divide numbers up to 4 digits by a one-digit number using the formal written method of short

a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Fractions Week 4 – 5

Multiply a unit fraction by an integer
Multiply a non-unit fraction by an integer
Multiply a mixed number by an integer
Calculate a fraction of a quantity
Fraction of an amount
Find the whole
Use fractions as operators

multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

Decimals and Percentages Week 6 – 8

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of 2 1, 4 1, 5 1, 5 2, 5 4 and those fractions with a denominator of a multiple of 10 or 25.

Perimeter and area Week 9 – 10

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes Use all four operations to solve problems involving measure

Statistics Week 11 – 12

Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables.







Summer

Geometry

Week 1 - 3 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (o) Identify: angles at a point and one whole turn (total 360o) Angles at a point on a straight line and 21 a turn (total 180o) Other multiples of 90o Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between

regular and irregular

polygons based on reasoning about equal

sides and angles.

Position and Direction Week 4 - 5

Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. Pupils recognise and use reflection and translation in a variety of diagrams, including continuing to use a 2-D grid and coordinates in the first quadrant. Reflection should be in lines that are parallel to the axes.

Decimals Week 6 - 8

Read and write decimal numbers as fractions [for example, 0.71 = 100 71] Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Round decimals with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places

Negative Numbers Week 9

Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

Converting Units Week 10 – 11

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre: centimetre and millimetre; gram and kilogram; litre and millilitre)

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

Solve problems involving converting between units of time

Volume Week 12

Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using waterl Use all four operations to solve problems involving measure



Autumn

Place Value Week 1 – 2

Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve all of the above

Addition and subtraction, multiplication and division Week 3 - 7

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Perform mental calculations, including with mixed operations and large numbers Identify common factors, common multiples and prime numbers Use their knowledge of the order of operations to carry out calculations involving the four operations Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of

accuracy.

Fractions Week 8 – 11

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Compare and order fractions, including fractions > 1

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 4 1 × 2 1 = 8 1]

Divide proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1]

Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 8 3]

Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal place Multiply one-digit numbers with up to two decimal places by whole numbers

Use written division methods in cases where the answer has up to two decimal places

Solve problems which require answers to be rounded to specified degrees of accuracy

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Converting Units Week 12

Solve problems involving the

calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
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 three decimal places
Convert between miles and kilometres





Spring	Ratio	Algebra	Decimals	Fractions, Decimals	Area, perimeter and	Statistics
- PrB	Week 1 - 2	Week 3 – 4	Week 5 - 6	and Percentages	volume	Week 11 - 12
	Solve problems involving	Use simple formulae	Associate a fraction	Week 7 – 8	Week 9 - 10	Interpret and construct
	the relative sizes of two	Generate and describe	with division and	Recall and use	Recognise that shapes	pie charts and line graphs
	quantities where missing	linear number	calculate decimal	equivalences	with the same areas can	and use these to solve
	values can be found by	sequences	fraction equivalents	between simple	have different perimeters	problems
	using integer	Express missing	[for example, 0.375]	fractions, decimals	and vice versa	Calculate and interpret
	multiplication and	number problems	for a simple fraction	and percentages,	Recognise when it is	the mean as an average.
	division facts	algebraically	[for example, 8 3]	including in different	possible to use formulae	
	Solve problems involving	Find pairs of numbers	Identify the value of	contexts.	for area and volume of	
	the calculation of	that satisfy an	each digit in numbers		shapes	
	percentages [for	equation with two	given to three decimal		Calculate the area of	
	example, of measures,	unknowns	places and multiply		parallelograms and	
	and such as 15% of 360]	Enumerate	and divide numbers by		triangles Calculate,	
	and the use of	possibilities of	10, 100 and 1000		estimate and compare	
	percentages for	combinations of two	giving answers up to		volume of cubes and	
	comparison	variables.	three decimal place		cuboids using standard	
	Solve problems involving	Missing numbers,	Multiply one-digit		units, including cubic	
	similar shapes where the	lengths, coordinates	numbers with up to		centimetres (cm3) and	
	scale factor is known or	and angles	two decimal places by		cubic metres (m3), and	
	can be found	Formulae in	whole numbers		extending to other units	
	Solve problems involving	mathematics and	Use written division		[for example, mm3 and	
	unequal sharing and	science	methods in cases		km3].	
	grouping using	Equivalent expressions	where the answer has			
	knowledge of fractions	(for example, $a + b = b$	up to two decimal			
	and multiples.	+ a)	places			
		Generalisations of	Solve problems which			
		number patterns	require answers to be			
		Number puzzles (for	rounded to specified			
		example, what two	degrees of accuracy			
		numbers can add up	Recall and use			
		to).	equivalences between			
			simple fractions,			
			decimals and			





				percentages, including in different contexts.			
			1				
Summer	Geometry		Position and Direction			Consolidation and themed projects	
	Week 1- 3		Week 4				
	Draw 2-D shapes using given		Describe positions on the full coordinate grid				
	dimensions and angles		(all four quadrants)				
	Recognise, describe and build simple		Draw and translate simple shapes on the				
	3-D shapes, including making nets		coordinate plane, and reflect them in the axes				
	Compare and classify geometric						
	shapes based on their properties and						
	sizes and find unknown angles in any						
	triangles, quadrilaterals, and regular						
	polygons						
	Illustrate and name parts of circles,						
	including radius, diameter	and					
	circumference and know the						
	diameter is twice the radiu	ıs					
	Recognise angles where th	nev meet at a					
	point, are on a straight line	•					
	vertically opposite, and fin						
	angles.						