Year 4 – Mathematics Intent





Year 4 Maths Long Term Plan										
Autumn	Multiplication and Divis x tables (3 weeks)	sion	Nun	Number and Place Value (5 weeks)			Addition and Subtraction (4 weeks)		ction	Statistics (1 week)
Spring	Multiplication and Division (4 weeks)			Fractions (5 weeks)					Decimals (3 weeks	
Summer	Decimals (2 weeks)	Measure: Mone (2 weeks)	Measure: Length, perimeter and area (2 weeks)		-	Measure Position ar Direction (2 weeks	nd 1	Measure (2 we		



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	Block 1				
Multiplication and Division (x tables)					
Substantive	Ready to Progress	Key Performance Indicators	Sequence of learning		
Knowledge			Detailed in Planning Overview		
National Curriculum					
Recall multiplication	NF-1 Recall multiplication	Can explain how to use known facts to derive others	*Recap 2, 5 and 10 times tables including		
and division facts for	and division facts up to	• Can recall the 3x 4x 8x table from year 3	patterns and generalisations		
multiplication tables up	12x12 and recognise	Can recall the 6x table	*Recap 4, 8 and 3 times tables including		
to 12 × 12	products in multiplication	• Can recall the 7x table	patterns and generalisations		
	tables as multiples of the	Can recall the 9x table	*Teach 6, 12, 9, 11 and 7 times tables		
	corresponding number.	• Can recall the 11x table	*Using arrays to investigate fact families		
		Can recall the 12x table	and the commutative law and inverse		
		Can derive related division facts	relationship of multiplication and division		
		Understands that division cannot be done in any order	*Solve missing box calculations using		
			known facts and inverse operations		
			*Strategies for mental calculation		
			(partitioning, doubling and halving,		
			compensating)		

	Block 2					
	Number and Place Value					
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview			
National Curriculum						



			<u> </u>
Count in multiples of 6,		• Can count in multiples of 6, 7 and 9	*Introduction to resources
7, 9, 25 and 1000		Can count in multiples of 25 and 100 and	*Building 4-digit numbers out of a range
		explain the link between the two amounts	of concrete resources
Find 1000 more or less		• Can find 1000 more than a given number	*Counting in 1000's to gain confidence
than a given number		and explain which digit changes	with 4-digit numbers
		• Can find 1000 less than a given number	*Composing 4-digit numbers and
		and explain which digit changes	discussing column value of each digit of
Count backwards		Can count backwards in a range of	these numbers (including the role of 0 in a
through zero to include		multiples to include negative numbers and	number)
negative numbers		understand the value of the digits	*Recognising that there are 10 hundreds in
Recognise the place	NPV–2 Recognise the place value of each	Can identify the number of thousands,	a thousand, 100 tens in 1000, 1000 ones in
value of each digit in a	digit in four-digit numbers, and compose	hundreds, tens and ones in a 4-digit	1000 and using this to represent a 4-digit
four-digit number	and decompose four-digit numbers using	number	number
(thousands, hundreds,	standard and non-standard partitioning		*Standard and non-standard partitioning
tens, and ones)			*Finding 1000 more or less than a given
Order and compare	NPV-3 Reason about the location of any	Can identify the larger of two 4-digit	number
numbers beyond 1000	four-digit number in the linear number	numbers and explain reasoning	* Ordering and comparing numbers
	system, including identifying the previous	• Can position 4-digit numbers on a	beyond 1000
	and next multiple of 1,000 and 100, and	number line and explain reasoning about	*Counting in 1000s, 500s, 100s, 50s and
	rounding to the nearest of each.	where they are positioned	25s
			* Positioning numbers on a blank and
	NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal		scaled number lines with a variety of
	parts, and read scales/number lines marked		starting and ending points and a range of
	in multiples of 1,000 with 2, 4, 5 and 10		increments.
	equal parts		*Rounding numbers to the nearest 10, 100
Identify, represent and	NPV-1 Know that 10 hundreds are equivalent	Can use equipment to represent numbers	and 1000
estimate numbers using	to 1 thousand, and that 1,000 is 10 times the	and to explain reasoning about the size of	*Reading and representing numbers on a
	size of 100; apply this to identify and work	numbers	number line to include negative numbers



different representations	out how many 100s there are in other four- digit multiples of 100		* Reading and writing Roman numerals up to 100
Round any number to the nearest 10, 100 or 1000	NPV–3 Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.	 Can round numbers to the nearest 10 Can round numbers to the nearest 100 Can round numbers to the nearest 1000 Can explain the rules of rounding 	
Solve number and practical problems that involve all of the above and with increasingly large positive numbers		Solve problems involving place value, including word problems and problems linked to money and measure	
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.		 Can read Roman numerals to 100 Can understand how the numeral system developed over time 	

	Block 3				
	Addition and Subtraction				
Substantive	Ready to Progress	Key Performance Indicators	Sequence of learning		
Knowledge			Detailed in Planning Overview		



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National Curriculum			
Add and subtract	4NF–3 Apply	Can calculate THTU + HTU (no bridging)	*Recapping known facts (bonds within 10, to 10, to 20,
numbers with up to 4	place-value	• Can Calculate THTU + HTU (bridging 10)	compliments to 100)
digits using the formal	knowledge to	• Can Calculate THTU + HTU (bridging 100)	*Scaling known facts by 10, 100 and 1000 to create related facts
written methods of	known additive	• Can Calculate THTU + THTU (no bridging)	*Adding multiples of 1, 10, 100 and 1000 to a number with no
columnar addition and	and multiplicative	• Can Calculate THTU + THTU (bridging 10)	bridging
subtraction where	number facts	• Can Calculate THTU + THTU (bridging 100)	*Adding 1 digit to a 3 or 4-digit number using bridging
appropriate	(scaling facts by	• Can Calculate THTU + THTU (bridging 10 and	*Adding a multiple of 10 to a 3 or 4-digit number using bridging
	100),	100)	*Adding a multiple of 100 to a 4-digit number using bridging
		• Can calculate THTU - HTU (no bridging)	*Subtracting multiples of 1, 10, 100 and 1000 from a number with
		• Can Calculate THTU - HTU (bridging 10)	no bridging
		• Can Calculate THTU - HTU (bridging 100)	*Subtracting 1 digit from a 3 or 4-digit number using bridging
		Can Calculate THTU - THTU (no bridging)	*Subtracting a multiple of 10 from a 3 or 4-digit number using
		• Can Calculate THTU - THTU (bridging 10)	bridging
		Can Calculate THTU - THTU (bridging 100)	*Subtracting a multiple of 100 from a 4-digit number using
		Can Calculate THTU - THTU (bridging 10 and	bridging
		100)	*Using the concept of 'finding the difference' within subtraction
		Can reflect on when it is appropriate to use a	*Understanding the inverse relationship between addition and
		standard written method in an addition or	subtraction and generating fact families
		subtraction calculation with up to 4 digits	*Using inverse operations within addition and subtraction to
Estimate and use		Can estimate the answer of an addition or	check calculations
inverse operations to		subtraction up to 4 digits	*Reordering calculations to look for known facts and aid efficiency
check answers to a		Can use addition and subtraction to calculate	* Compensating and Adjusting
calculation		the inverse	*Standard written method of addition (4 digit add 4 digit)
Solve addition and		Can use a calculation skill in a problem using	*Standard written method of subtraction (4 digit subtract 4 digit)
subtraction two-step		units of measure (km, m, cm, mm, kg, g, l, ml,	*Reflecting on the most efficient strategy
problems in contexts,		hours, minutes and seconds)	



deciding which		*Solve addition and subtraction two step problems in contexts,
operations and		deciding which operations and methods to use and why.
methods to use and		
why.		

	Block 4					
	Statistics					
Substantive	Ready to Progress	Key Performance Indicators	Sequence of learning			
Knowledge			Detailed in Planning Overview			
National						
Curriculum						
Interpret and	No specific Ready to	Understands which is the best method of recording	*Make a class chart using cubes. Children to vote by			
present discrete	Progress statements	data e.g. compare data presented in a bar chart and	selecting a colour cube that matches their choice and then			
and continuous	for statistics but use	line graph and reason as to which is the most	make bar chart. Show how to draw on a bar chart / tally			
data using	the opportunity to	effective	chart. Discuss how to read each axis. Link axis to reading a			
appropriate	consolidate prior	• Can use an appropriate scale when representing data	number line.			
graphical methods,	statements as	 Can answer questions from a range of different 	*Children to practice reading discreet data charts (bar, tally.			
including bar charts	appropriate e.g	graphs e.g. In which months was the temperature	Pictogram) and answer questions around this data (ensure			
and time graphs.	NPV-4 Divide 1,000	below 10°C?	that charts have differing scales)			
Solve comparison,	into 2, 4, 5 and 10	• Can answer questions from a bar chart that involve	*Children to investigate their own discreet data collection			
sum and difference	equal parts, and	comparison, sum and difference	and choose how to represent this clearly with an			
problems using	read scales/number	• Can answer questions from a pictogram that involve	appropriate scale			
information	lines marked in	comparison, sum and difference	*Introduce continuous data and discuss how this is different			
presented in bar	multiples of 1,000	 Can answer questions from a table that involve 	to discreet			
charts, pictograms,	with 2, 4, 5 and 10	comparison, sum and difference	*Represent continuous data as a line graph (link to			
	equal parts		science/topic)			



tables and other	Can answer questions from a line graph that involve	*Read and interpret a range of line graphs and answer
graphs.	comparison, sum and difference	questions on the data
		*Collect continuous data and choose how to present this
		and with what scale

Block 5					
Multiplication and Division					
Substantive	Ready to Progress	Key Performance Indicators	Sequence of learning		
Knowledge			Detailed in Planning Overview		
National Curriculum					
Use place value, known	4NF–3 Apply place-value	Understands how a multiplication fact can be used to	*Multiplying by 10 and 100		
and derived facts to	knowledge to known	multiply by a multiple of 10	*Dividing by 1, 10 and 100		
multiply and divide	additive and multiplicative	Understands how a multiplication fact can be used to	*Using scaling numbers by 10 and 100 to		
mentally, including:	number facts (scaling facts	multiply by a multiple of 100	solve calculations using known facts		
multiplying by 0 and 1;	by 100)	Understands how to multiply 3 one-digit numbers together	*Using arrays investigate fact families and		
dividing by 1;		Understands the effect of multiplying by 1 and 0	the commutative law and inverse		
multiplying together	MD-3 Understand and	Understands the effect of dividing by 1	relationship of multiplication and division		
three numbers	apply the distributive	Understands how a multiplication fact can be used to solve	*Solve missing box calculations using		
	property of multiplication	a division calculation	known facts and inverse operations		
Recognise and use	MD-2 Manipulate	Can identify factors of a 2-digit number	*Strategies for mental calculation		
factor pairs and	multiplication and division	Understands that multiplication can be done in any order	(partitioning, doubling and halving,		
commutativity in	equations, and understand		compensating)		
mental calculations	and apply the commutative		*Find factors of numbers using a		
	property of multiplication.		systematic approach		



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Multiply two-digit and		Can use a formal written method to multiply TU by U	*Multiplying 3 numbers using the most
three-digit numbers by		Can use a formal written method to multiply HTU by U	efficient strategy
a one-digit number			*Solving problems including using scaling
using formal written			and correspondence
layout			*Written strategy for multiplication (Check
Solve problems	NF–2 Solve division	Can solve word problems involving multiplication	school calculation policy)
involving multiplying	problems, with two-digit	Can solve word problems involving division	* Written strategy for division if stated in
and adding, including	dividends and one-digit	Can solve scaling problems involving measures	school calculation policy
using the distributive	divisors, that involve	• Can solve correspondence problems <i>e.g. There are 3</i>	*Solve a range of problems using
law to multiply two-	remainders	starters, mains and desserts on a menu, how many possible	multiplication and division using an
digit numbers by one		meals could you have?	efficient strategy.
digit, integer scaling			*Solve multi-step problems involving all 4
problems and harder			operations. Choose an efficient method for
correspondence			calculating and explain which methods
problems such as n			have been used.
objects are connected			
to m objects.			

Block 6			
Fractions			
Substantive Knowledge Ready to Progress Key Performance Indicators Sequence of learning Detailed in Planning Overview			
National Curriculum			



Recognise and show, using	F–1 Reason about the location of	Can use common multiples to generate equivalent	*Recapping children's prior knowledge
diagrams, families of common	mixed numbers in the linear	fractions.	of fractions
equivalent fractions	number system	Can simplify fractions using common factors	*Investigating using pictorial or
			practical resources how to make a
	F-2 Convert mixed numbers to		whole
	improper fractions and vice versa.		*Placing fractions on a 0-1 number
			line
Solve problems involving		Can use unit fractions to solve a problem.	*Placing mixed numbers and improper
increasingly harder fractions		Can use non-unit fractions to solve a problem.	fractions on a number line
to calculate quantities, and			*Equivalent fractions using
fractions to divide quantities,			multiplication
including non-unit fractions			*Finding fractions of an amount (unit
where the answer is a whole			and non-unit fractions)
number			*Adding fractions with the same
Add and subtract fractions	F–3 Add and subtract improper	Can add multiples of common fractions such as a	denominator (total may exceed one
with the same denominator	and mixed fractions with the same	½ and 1/4	whole)
	denominator, including bridging	Can add and subtract fractions with a common	*Subtracting fractions with the same
	whole numbers	denominator	denominator (start number may be
		Can use equivalent fractions to add and subtract	more than one whole)
		fractions of the same denominator.	

Blocks 7 and 8					
Decimals and Money					
Substantive Knowledge	Substantive Knowledge Ready to Progress Key Performance Indicators Sequence of learning				
	Detailed in Planning Overview				



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National Curriculum			
Count up and down in		Understands hundredths are dividing an object	*Recap year 3 decimals unit and look at
hundredths; recognise that		or a number into 100 equal parts.	counting in tenths
hundredths arise when		Understand tenths are dividing an object or a	*Using money, base 10 or a bead string
dividing an object by one		number into 10 equal parts.	investigate a hundredth as a fraction and
hundred and dividing tenths		Understands hundredths can be made by	a decimal (1 out of100 beads is 1/100 or
by ten.		dividing tenths into 10 equal parts.	0.01 because we have 1 in the hundredth
		Can find and place hundredths on a number	column
		line.	*Positioning hundredths on a number
		Can use hundredths in money and measure	line and using this to order and compare
		Can compare and order numbers to 2dp	decimals to 2 dp
			*Positioning decimals to 1 dp on a
Recognise and write decimal		Can identify and calculate 1/10 as a decimal	number line and using this to discuss
equivalents of any number of		Can identify the pattern when finding other	which whole number this decimal would
tenths or hundredths		tenths.	round to
		Can identify and calculate 1/100 as a decimal	*Identifying where 0.5, 0.25 and 0.75
		Can identify the pattern when finding other	would be on a number line and
		hundredths.	discussing that these are positioned at 1/2,
Recognise and write decimal		Can recall decimal equivalent to 1/2	½ and ¾ points on the number line
equivalents to 1/4, 1/2 and 3/4		Can recall decimal equivalent to 1/4	*Dividing a 1 or 2-digit number by 10 or
		Can recall decimal equivalent to 3/4	100 and reading the answer as ones,
Find the effect of dividing a	MD-1 Multiply and divide whole	Can explain the effect of dividing a one-digit	tenths and hundredths
one- or two-digit number by	numbers by 10 and 100 (keeping	number by 10	*Connecting tenths and hundredths –
10 and 100, identifying the	to	Can explain the effect of dividing a two-digit	how many hundredths are there in a
value of the digits in the	whole number quotients);	number by 10	tenth?
answer as ones, tenths and	understand this as equivalent to	Can explain the effect of dividing a one-digit	*Linking to money – how many 10p are
hundredths	making a number 10 or 100 times	number by 100	in a pound? How many 1p are in a
	the size.		pound



		+C
	Can explain the effect of dividing a two-digit	*Comparing different amounts of money
	number by 100	^recapping calculating strategies from
Round decimals with one	Can identify the nearest whole number to a one	number unit to calculate with money to 2
decimal place to the nearest	decimal place number.	dp
whole number		*Solve problems involving money
Compare numbers with the	Can compare and order 1 dp numbers on a	
same number of decimal	number line.	
places up to two decimal	Can compare 2dp numbers on a number line	
places		
Estimate, compare and	Can use decimal place value knowledge to	
calculate different measures,	compare different measures.	
including money in pounds	Can calculate with measures	
and pence		
Solve simple measure and	• Knows how many 10ps are in a £1	
money problems involving	• Knows how many 1ps are in a £1	
fractions and decimals to two	Knows how many centimetres are in a metre.	
decimal places.	Can solve problems involving money to 2dp	
	Can solve problems involving length to 2dp	

	Block 9			
	Measure – Length, Perimeter and Area			
Substantive Ready to Progress Key Performance Indicators Sequence of learning Knowledge Detailed in Planning Overview				
National Curriculum				
Convert between	No specific Ready to Progress	Knows and understands the relationships	Consider links to PE/Sports Day,	
different units of	statements for Length and Perimeter	between familiar units of measurement	Olympics/Commonwealth Games	



measure [for example,	but use the opportunity to consolidate	Can use multiplication and division to	Length
kilometre to metre;	prior statements as appropriate e.g.	aid conversion.	*Explore tools for measuring length
hour to minute]	NPV-3 Reason about the location of	• Can convert km into m and vice versa.	*Explore vocab for measuring length
	any four-digit number in the linear	Can suggest the most appropriate unit	*Model units of length
	number system, including identifying	of measure.	*Read scales
Measure and calculate	the previous and next multiple of 1,000	Can measure sides of a rectangle to	*Measure in metres
the perimeter of a	and 100, and rounding to the nearest	calculate the perimeter.	*Measure in mm/cm
rectilinear figure	of each.	• Can generalise about the perimeter of a	*Discuss km
(including squares) in		rectangle using words and symbols.	*Explore how many cm in a m, m in a km
centimetres and	NPV-4 Divide 1,000 into 2, 4, 5 and 10	• Can use the formulae 2(L+W) to	*Convert measures in cm to m, m to km, km to m
metres.	equal parts, and read scales/number	calculate perimeter of a rectangle.	based on place value and decimal work
	lines marked in multiples of 1,000 with	Can work out the perimeter of irregular	*Work out equivalent lengths using conversions
	2, 4, 5 and 10 equal parts	shapes.	*Order and compare lengths using conversion
Find the area of		• Can relate area to arrays and	*Addition and subtraction problems linked to
rectilinear shapes by	MD-1 Multiply and divide whole	multiplication.	length.
counting squares	numbers by 10 and 100 (keeping to	• Can find the area of a rectangle by	*Multiplication and division problems linked to
	whole number quotients);	counting squares.	length.
	understand this as equivalent to	Can generalise about the area of a	
	making a number 10 or 100 times the	rectangle using words and symbols.	Perimeter
	size.		*Measure perimeter
Estimate, compare		• Can use decimal place value knowledge	*Find perimeters using addition and multiplication
and calculate different		to compare different measures.	knowledge.
measures, including		• Can calculate with measures	*Work out the perimeter or irregular shapes by
money in pounds and			breaking them down into smaller rectilinear shapes
pence			
			Area
			*Find the area of a rectangle by counting squares.



	Blocks 10 and 11			
		Geometry		
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning	
			Detailed in Planning Overview	
National Curriculum				
Compare and classify	G–2 Identify regular polygons,	Can recall and recognise in a variety of shapes that:	*Recap 2D shape – names and	
geometric shapes, including	including equilateral triangles	an equilateral triangle has three equal sides and three	properties of shapes (regular and	
quadrilaterals and triangles,	and squares, as those in which	equal angles	irregular shapes)	
based on their properties	the side-lengths are equal and	• isosceles triangles have two equal sides and two equal	*Recognising angles (obtuse, acute	
and sizes	the angles are equal. Find the	angles	and right angles)	
	perimeter of regular and	right angled triangles have one right angle	*Identifying angles in shapes	
	irregular polygons.	scalene triangles have no equal sides and no equal	*Investigating triangles, classifying	
		angles	and sorting	
		triangles cannot have more than one obtuse angle	*Investigating quadrilaterals,	
		• squares have four equal sides and four right angles	classifying and sorting	
		rectangles have two pairs of equal and parallel sides	*Investigating symmetrical patterns	
		and four right angles	(one line of symmetry, 2 lines of	
		parallelograms have two pairs of equal and parallel	symmetry, line of symmetry parallel	
		sides	to gridlines, line of symmetry at an	
		• rhombuses have four equal sides, two pairs of parallel	angle to the gridlines)	
		sides	*Exploring symmetry in shapes	
		trapeziums have one pair of parallel sides	*Using coordinates to position	
		kites have two pairs of equal sides which are adjacent,	points and to read the position of	
		two equal angles	points using the language of x and y	
		Can recall the names of other polygons and their	axis	
		associated numbers of sides		



	-		
Identify acute and obtuse		Can identify acute angles on their own and within	*Can use knowledge of properties of
angles and compare and		shapes	shapes to plot a missing coordinate
order angles up to two right		Can identify obtuse angles on their own and within	of a given polygon
angles by size		shapes	*Can use the language of
		• Can compare two or more angles up to 180°	coordinates and positional language
			to describe how a shape has been
			translated
Identify lines of symmetry in	G–3 Identify line symmetry in 2D	Can recall and recognise in different shapes that:	*Can translate a shape when given
2-D shapes presented in	shapes presented in different	A square has four lines of symmetry	coordinates and positional language
different orientations	orientations. Reflect shapes in a	A rectangle has two lines of symmetry	
	line of symmetry and complete a	A rhombus has two lines of symmetry	
	symmetric figure or pattern with	A parallelogram has no lines of symmetry	
	respect to a specified line of	A trapezium may or may not have a line of symmetry	
	symmetry.	A kite has one line of symmetry	
		An equilateral triangle has three lines of symmetry	
		An isosceles triangle has one line of symmetry	
		A regular polygon has the same of lines of symmetry as	
		it has sides	
Complete a simple		Can complete a pattern drawn on a square grid with:	
symmetric figure with		one line of symmetry drawn parallel to the gridlines	
respect to a specific line of		• one line of symmetry drawn at an angle to the gridlines	
symmetry		two lines of symmetry	
Describe positions on a 2-D		Can distinguish between the x and y axis.	
grid as coordinates in the		Can draw a pair of axes in one quadrant with equal	
first quadrant		scales and integer labels.	
Describe movements	G–1 Draw polygons, specified by	Can describe position of a vertex of a 2D shape in the	
between positions as	coordinates in the first quadrant,	first quadrant using a pair of coordinates.	



translations of a given unit	and translate within the first	Can translate a shape using left/right and up/down
to the left/right and	quadrant	
up/down		
Plot specified points and		Can use properties of shape to complete the vertices of
draw sides to complete a		a simple shape.
given polygon		

		Block 12	
Measure – Time			
Substantive Knowledge Ready to Progress		Key Performance Indicators	Sequence of learning
			Detailed in Planning Overview
National Curriculum			
Convert between different		Knows and understands the relationships	*Discuss units of time - how long is a minute, a
units of measure [for		between familiar units of measurement	second, an hour, a day? etc
example, kilometre to		Can use multiplication and division to aid	*Suggest sensible estimates for things that you
metre; hour to minute]		conversion	could do in a minute, a second, an hour
		Can convert an hour into minutes and vice	*Suggest how long it would take to do certain tasks.
		versa	Time these tasks to see how accurate your
		Can suggest the most appropriate unit of	predictions were
		measure	*Discuss conversions (how many seconds in a
			minute, minutes in an hour, etc)
Read, write and convert		Can read and understand 24-hour time	*Convert times given in seconds to minutes, minutes
time between analogue and		• Can relate 24 hr notation to am and pm	to hours, etc
digital 12- and 24-hour		Can covert 12 hr into 24 hour and vice	*Read analogue and digital clocks to the nearest
clocks		versa	minute. Convert digital to analogue time and
			analogue to digital time.



Solve problems involving	Can solve problems involving familiar	*Look at the 24-hour clock and 12-hour clock with
converting from hours to	conversions	am and pm displayed. Convert between 12 and 24-
minutes; minutes to	Can interpret the answer in more than one	hour times.
seconds; years to months;	measure	*Solving real life problems involving reading and
weeks to days		converting time

^{*}Continue to revise Year 3 Measure: mass and capacity objectives through retrieval sessions.

