MATHS		Year 4 Objectives
Autumn	<u>Spring</u>	<u>Summer</u>
Autumn 1 -30 days plus 5 problem solving days	Spring 1 -25 days plus 5 problem solving days	Summer 1 -30 days plus 5 problem solving days (there
Number and place value -1 week	Mental –recap times tables and division facts as	are extra days here so you can add recap sessions)
Mental –telling the time on analogue and digital clocks	necessary across the term	Mental –recap times tables and division facts as
-count in multiples of 6, 7, 9, 25 and 1000	Number and place value -7 days	necessary across the term (KPI)
-find 1000 more or less than a given number	-count in multiples of 6, 7, 9, 25 and 1000 (KPI)	Multiplication and division -6 days
-count backwards through zero to include negative	-find 1000 more or less than a given number	Mental –using table facts to calculate higher values eg.
numbers (KPI)	-count backwards through zero to include negative	400 x 70 = , 5400 / 90 =
-recognise the place value of each digit in a four-digit	numbers	-multiply two-digit and three-digit numbers by a one-
number (thousands, hundreds, tens, and ones)	-round any number to the nearest 10, 100 or 1000	digit number using formal written step layout step
-order and compare numbers beyond 1000	-round decimals with one decimal place to the nearest	-solve problems involving multiplying and adding,
Addition and subtraction -1 week	whole number	including using the distributive law to multiply two digit
Mental –times tables –recap x2,x3,x4,x5,x10	-read Roman numerals to 100 (I to C) and know that over	numbers by one digit, integer scaling problems and harder
-add and subtract numbers with up to 4 digits using the	time, the numeral system changed to include the concept	correspondence problems such as n objects are connected
formal written methods of columnar addition and	of zero and place value.	to m objects.
subtraction where appropriate	Geometry -properties of shapes -2 days	Number and place value –3/4 days
-solve addition and subtraction problems in contexts,	-identify lines of symmetry in 2-D shapes presented in	-identify, represent and estimate numbers using different
deciding key words and whether your answer fits the	different orientations (KPI)	representations [SEP]
question	-complete a simple symmetric figure with respect to a	-order and compare numbers beyond 1000 (KPI)
<u>Measurement -</u> 3 days	specific line of symmetry.	-round any number to the nearest 10, 100 or 1000 (KPI)
Mental –converting between units of time eg. Minutes	Addition and subtraction -1 week	-solve number and practical problems that involve all of
into hours	Mental –find 100 and 1000 more or less than a given	the above and with increasingly large positive numbers $\begin{bmatrix} 1 \\ SEP \end{bmatrix}$
-rounding values to nearest 10,100,1000	number	read Roman numerals to 100 (I to C) and know that
-read, write and convert time between analogue and	-add and subtract numbers with up to 4 digits using the	over time, the numeral system changed to include the
digital 12- and 24-hour clocks	formal written methods of columnar addition and	concept of zero and place value.
-solve problems involving converting from hours to	subtraction where appropriate	Geometry -properties of shapes -2/3 days
minutes; minutes to seconds; years to months; weeks to	-involve money and measures	Mental –convert between different units of measurement
days.	-solve addition and subtraction one and two-step	-compare and classify geometric shapes, including
Number and place value -4 days	problems in contexts, deciding which operations and	quadrilaterals and triangles, based on their properties and
Mental –recap x2,x3,x4,x5,x10 and division facts	methods to use and why. (KPI)	sizes sep
-identify, represent and estimate numbers using different	<u>Measurement -</u> 2 days	-identify acute and obtuse angles and compare and order
representations	Mental –order and compare numbers	angles up to two right angles by size
-count in multiples of 6, 7, 9, 25 and 1000	-estimate, compare and calculate different measures,	-plot specified points and draw sides to complete a given
-count backwards through zero to include negative	including money in pounds and pence	polygon. (KPI)
numbers (KPI)	Multiplication and division -2 days	SEP Measurement -3 days
-recognise the place value of each digit in a four-digit	-use place value, known and derived facts to multiply and	-measure and calculate the perimeter of a rectilinear
number (thousands, hundreds, tens, and ones)	divide mentally, including: multiplying by 0 and 1;	figure (including squares) in centimetres and metres
Geometry – properties of shape-2 days	dividing by 1; multiplying together three numbers	-find the area of rectilinear shapes by counting squares step

-compare and classify geometric shapes, including	-recognise and use factor pairs and commutativity in	Fractions -4/5 days
quadrilaterals and triangles, based on their properties and	mental calculations	- if needed recap 1.)recognise and show, using diagrams,
sizes (KPI)	Fractions -3 days	families of common equivalent fractions
-identify acute and obtuse angles and compare and order	Mental –Roman numerals	2.)count up and down in hundredths;
angles up to two right angles by size	-count up and down in hundredths; recognise that	recognise that hundredths arise when dividing an object
Measures -4 days	hundredths arise when dividing an object by one hundred	by one hundred and dividing tenths by ten. [1]
Mental – 6 times table and division facts	and dividing tenths by ten. (KPI)	-solve problems involving increasingly harder fractions to
-converting from hours to minutes; minutes to seconds;	-solve problems involving increasingly harder fractions to	calculate quantities, and fractions to divide quantities,
years to months; weeks to days.	calculate quantities, and fractions to divide quantities,	including non-unit fractions where the answer is a whole
-calculate differences on temperature scales.	including non-unit fractions where the answer is a whole	number
-Convert between different units of measure [for	number	- solve simple measure and money problems involving
example, kilometre to metre; hour to minute]	-add and subtract fractions with the same denominator	fractions and decimals to two decimal places. (KPI)
Number –place value -3 days	Addition and subtraction -2 days	SEP)
-order and compare numbers beyond 1000	-estimate and use inverse operations to check answers to	Summer 2 - 30 days plus 5 problem solving days (there
-solve number and practical problems with increasingly	a calculation	are extra days here so you can add recan sessions)
large numbers	-solve problems checking answers with the inverse.	Montal recent times tables and division facts as
		necessary across the term
Autumn 2-30 days plus 5 problem solving days	Spring 2 -25 days plus 5 problem solving days	Geometry position and direction $-1/2$ days
Fractions -1 week	Mental –recap times tables and division facts as	describe positions on a 2-D grid as coordinates in the first
Mental -6 and 7 times table and division facts	necessary across the term	-deserve positions on a 2-D grid as coordinates in the first quadrant
-recognise and show, using diagrams, families of	<u>Measurement -1</u> week	-describe movements between positions as translations of
common equivalent fractions (KPI)	Mental –Roman Numerals	a given unit to the left/right and up/down
-count up and down in hundredths; recognise that	-read, write and convert time between analogue and	Multiplication and division -5 days
hundredths arise when dividing an object by one hundred	digital 12- and 24-hour clocks	Mental – factor pairs
and dividing tenths by ten.	-solve problems involving converting from hours to	-multiply two-digit and three-digit numbers by a one-
-be able to simplify simple fractions	minutes; minutes to seconds; years to months; weeks to	digit number using formal written trailayout tra
<u>Number – place value - 1 week</u>	days.	-solve problems involving multiplying and adding
Mental -9 times table and division facts	-Convert between different units of measure [for	including using the distributive law to multiply two digit
-round any number to the nearest 10, 100 or 1000	example, kilometre to metre; hour to minute] (KPI)	numbers by one digit integer scaling problems and harder
-order and compare numbers beyond 1000 (KPI)	-measure and calculate the perimeter of a rectilinear	correspondence problems such as n objects are connected
-calculate different measures involving money in pounds	figure (including squares) in centimetres and metres	to mobilects
and pence -adding amounts, showing smallest number of	Fractions -1 week	Statistics -1/2 days
coins for given values	-find the effect of dividing a one- or two-digit number by	-solve comparison sum and difference problems using
Addition and subtraction -1 week	10 and 100, identifying the value of the digits in the	information presented in bar charts pictograms tables and
Mental -8 times table and division facts	answer as ones, tenths and hundredths	other graphs (KPI)
-add and subtract numbers with up to 4 digits using the	-recognise and write decimal equivalents of any number	Addition and subtraction -4/5 days
formal written methods of columnar addition and	of tenths or hundredths	Mental –rounding numbers including decimals
subtraction where appropriate	-compare numbers with the same number of decimal	-add and subtract numbers with up to 4 digits using the
-involve money -totals and change	places up to two decimal places	formal written methods of columnar addition and
-solve addition and subtraction two-step problems in	-solve simple measure and money problems involving	subtraction where appropriate
contexts, deciding which operations and methods to use	fractions and decimals to two decimal places.	succession appropriate Stil

and why.	Multiplication and division -7 days	-estimate and use inverse operations to check answers to
Multiplication and division -2 days	-recall multiplication and division facts for multiplication	a calculation [SEP]
-recall multiplication and division facts for multiplication	tables up to 12×12 (KPI)	-solve addition and subtraction two-step problems in
tables up to 12×12	-multiply two-digit and three-digit numbers by a one-	contexts, deciding which operations and methods to use
Fractions -2 weeks	digit number using formal written layout	and why. (KPI)
Mental –left and right, horizontal, vertical and diagonal	-solve problems involving multiplying and adding,	Fractions FP-4 days
-recap recognising and showing, using diagrams, families	including using the distributive law to multiply two digit	Mental –multiplying and dividing numbers by 10 and 100
of common equivalent fractions (KPI)	numbers by one digit, integer scaling problems and harder	-recap recognizing and writing equivalent fractions and
- add and subtract fractions with the same denominator	correspondence problems such as n objects are connected	decimals
-recognise and write decimal equivalents of any number	to m objects.	-compare numbers with the same number of decimal
of tenths or hundredths	Statistics -2 days	places up to two decimal places
-recognise and write decimal equivalents to quarter, half	-interpret and present data using bar charts, pictograms	-round decimals with one decimal place to the nearest
and 3 quarters	and tables	whole number (KPI)
-count up and down in hundredths; recognise that	-solve one-step and two-step questions [for example,	solve simple measure and money problems involving
hundredths arise when dividing an object by one hundred	'How many more?' and 'How many fewer?'] using	fractions and decimals to two decimal places.
and dividing tenths by ten.	information presented in scaled bar charts and pictograms	<u>Measurement</u> –5 days
-round decimals with one decimal place to the nearest	and tables.	-estimate, compare and calculate different measures,
whole number	<u>Number -</u> 2 days	including money in pounds and pence
-solve simple measure and money problems involving	-solve number and practical problems that involve all of	-read, write and convert time between analogue and
fractions and decimals to two decimal places.	the above and with increasingly large positive numbers	digital 12- and 24-hour clocks
Statistics -2 days	Geometry -position and direction -2/3 days	-solve problems involving converting from hours to
-interpret and present discrete and continuous data using	-describe positions on a 2-D grid as coordinates in the first	minutes; minutes to seconds; years to months; weeks to
appropriate graphical methods, including bar charts and	quadrant	days.
time graphs.	-plot specified points and draw sides to complete a given	
	polygon.	