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| Autumn | Spring | Summer |
| Autumn 1-30 days plus 5 problem solving days Number and place value -1 week <br> Mental-telling the time on analogue and digital clocks -count in multiples of 6, 7, 9, 25 and 1000 <br> -find 1000 more or less than a given number <br> -count backwards through zero to include negative numbers (KPI) <br> -recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> -order and compare numbers beyond 1000 <br> Addition and subtraction -1 week Mental -times tables -recap x2,x3,x4,x5,x10 <br> -add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <br> -solve addition and subtraction problems in contexts, deciding key words and whether your answer fits the question <br> Measurement - 3 days <br> Mental -converting between units of time eg. Minutes into hours <br> -rounding values to nearest $10,100,1000$ <br> -read, write and convert time between analogue and digital 12- and 24-hour clocks <br> -solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. <br> Number and place value -4 days <br> Mental -recap x2,x3,x4,x5,x10 and division facts <br> -identify, represent and estimate numbers using different representations <br> -count in multiples of 6, 7, 9, 25 and 1000 <br> -count backwards through zero to include negative numbers (KPI) <br> -recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> Geometry -properties of shape-2 days | Spring 1-25 days plus 5 problem solving days <br> Mental-recap times tables and division facts as necessary across the term <br> Number and place value - 7 days <br> -count in multiples of 6, 7, 9, 25 and 1000 (KPI) <br> -find 1000 more or less than a given number <br> -count backwards through zero to include negative <br> numbers <br> -round any number to the nearest 10,100 or 1000 <br> -round decimals with one decimal place to the nearest <br> whole number <br> -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. <br> Geometry -properties of shapes -2 days <br> -identify lines of symmetry in 2-D shapes presented in different orientations (KPI) <br> -complete a simple symmetric figure with respect to a specific line of symmetry. <br> Addition and subtraction -1 week <br> Mental -find 100 and 1000 more or less than a given number <br> -add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <br> -involve money and measures <br> -solve addition and subtraction one and two-step problems in contexts, deciding which operations and methods to use and why. (KPI) <br> Measurement - 2 days <br> Mental -order and compare numbers <br> -estimate, compare and calculate different measures, including money in pounds and pence <br> Multiplication and division -2 days <br> -use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; <br> dividing by 1 ; multiplying together three numbers | Summer 1-30 days plus 5 problem solving days (there are extra days here so you can add recap sessions) <br> Mental -recap times tables and division facts as necessary across the term (KPI) <br> Multiplication and division - 6 days <br> Mental -using table facts to calculate higher values eg. $400 \times 70=, 5400 / 90=$ <br> -multiply two-digit and three-digit numbers by a onedigit number using formal written [sep layout [ETE] -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. <br> Number and place value $-3 / 4$ days <br> -identify, represent and estimate numbers using different representations [5] [ip <br> -order and compare numbers beyond 1000 (KPI) <br> -round any number to the nearest 10,100 or $1000(\mathrm{KPI})$ <br> -solve number and practical problems that involve all of the above and with increasingly large positive numbers [sctep - -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. [5EP? <br> Geometry -properties of shapes $-2 / 3$ days <br> Mental -convert between different units of measurement -compare and classify geometric shapes, including <br> quadrilaterals and triangles, based on their properties and sizes [5Lep <br> -identify acute and obtuse angles and compare and order angles up to two right angles by size <br> -plot specified points and draw sides to complete a given polygon. (KPI) <br> SEP:Measurement - 3 days <br> -measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres -find the area of rectilinear shapes by counting squares [E5p] |

-compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes (KPI)
-identify acute and obtuse angles and compare and order angles up to two right angles by size

## Measures -4 days

Mental - 6 times table and division facts
-converting from hours to minutes; minutes to seconds; years to months; weeks to days.
-calculate differences on temperature scales.
-Convert between different units of measure [for
example, kilometre to metre; hour to minute]
Number -place value - 3 days
-order and compare numbers beyond 1000
-solve number and practical problems with increasingly large numbers

Autumn 2- 30 days plus 5 problem solving days Fractions - 1 week
$\overline{\text { Mental -6 and } 7 \text { times table and division facts }}$ -recognise and show, using diagrams, families of common equivalent fractions (KPI)
-count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
-be able to simplify simple fractions
Number -place value - 1 week
Mental -9 times table and division facts
-round any number to the nearest 10,100 or 1000
-order and compare numbers beyond 1000 (KPI)
-calculate different measures involving money in pounds and pence-adding amounts, showing smallest number of coins for given values
Addition and subtraction -1 week
Mental -8 times table and division facts
-add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
-involve money -totals and change -solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use
-recognise and use factor pairs and commutativity in mental calculations
Fractions - 3 days
Mental-Roman numerals
-count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. (KPI)
-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 Addition and subtraction -2 days
-estimate and use inverse operations to check answers to a calculation
-solve problems checking answers with the inverse.
Spring 2-25 days plus 5 problem solving days
Mental -recap times tables and division facts as

## necessary across the term

## Measurement -1 week

Mental-Roman Numerals
-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.
-Convert between different units of measure [for example, kilometre to metre; hour to minute] (KPI) -measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Fractions -1 week
-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
-recognise and write decimal equivalents of any number of tenths or hundredths
-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.

## Fractions $-4 / 5$ days

- if needed recap 1.)recognise and show, using diagrams, families of common equivalent fractions
2.)count up and down in hundredths;
recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. "L5.E? -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
- solve simple measure and money problems involving fractions and decimals to two decimal places. (KPI) step [sep
Summer 2-30 days plus 5 problem solving days (there are extra days here so you can add recap sessions) Mental-recap times tables and division facts as necessary across the term
Geometry -position and direction $-1 / 2$ days
-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
Multiplication and division - 5 days
Mental-factor pairs
-multiply two-digit and three-digit numbers by a onedigit number using formal written [sEplayout [EDED
-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.
Statistics $-1 / 2$ days
-solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. (KPI)
Addition and subtraction -4/5 days
Mental -rounding numbers including decimals
-add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate [s]


## and why.

Multiplication and division - 2 days
-recall multiplication and division facts for multiplication tables up to $12 \times 12$
Fractions - 2 weeks
Mental-left and right, horizontal, vertical and diagonal -recap recognising and showing, using diagrams, families of common equivalent fractions (KPI)

- add and subtract fractions with the same denominator
-recognise and write decimal equivalents of any number of tenths or hundredths
-recognise and write decimal equivalents to quarter, half and 3 quarters
-count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
-round decimals with one decimal place to the nearest whole number
-solve simple measure and money problems involving fractions and decimals to two decimal places.


## Statistics - 2 days

-interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

## Multiplication and division -7 days

-recall multiplication and division facts for multiplication tables up to $12 \times 12$ (KPI)
-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.
Statistics - 2 days
-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.

## Number - 2 days

-solve number and practical problems that involve all of the above and with increasingly large positive numbers
Geometry -position and direction $-2 / 3$ days
-describe positions on a 2-D grid as coordinates in the first quadrant
-plot specified points and draw sides to complete a given polygon.
-estimate and use inverse operations to check answers to a calculation [STC
-solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. (KPI)
Fractionssspe-4 days
Mental - multiplying and dividing numbers by 10 and 100 -recap recognizing and writing equivalent fractions and decimals
-compare numbers with the same number of decimal places up to two decimal places
-round decimals with one decimal place to the nearest whole number (KPI)
:scep-solve simple measure and money problems involving fractions and decimals to two decimal places. [EEp]
Measurement -5 days
-estimate, compare and calculate different measures, including money in pounds and pence [step
-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.

