| s 1 |  |  |  |  |  |  |
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|  |  |  | mer A |  |  | mer B |
| Maths <br> National Curriculum <br> Progression <br> supported by Abacus <br> Framework | Year 1 <br> Count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number. <br> Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. <br> Given a number, identify one more and one less. <br> 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. Read and write numbers from 1 to 20 in numerals and words. <br> Read, write and interpret mathematical statements involving addition, subtraction and equals signs. <br> Represent and use number bonds and related subtraction facts within 20. <br> Add and subtract one-digit and two-digit numbers to 20 , including zero. <br> Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems. Compare, describe and solve practical problems for lengths and heights, mass/weight, capacity and volume, and time. Measure and begin to record the following: lengths and heights, mass/weight, capacity and volume, and time. <br> Recognise and know the value of different denominations of coins and notes. <br> Recognise and name common 2-D and 3-D shapes. <br> Describe position, direction and movement, including whole, half, quarter and threequarter turns. <br> Year 2 <br> Count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward. <br> Recognise the place value of each digit in a two-digit number. <br> Identify, represent and estimate numbers using different representations, including the number line. <br> Compare and order numbers from 0 up to 100; use <, >and = signs. <br> Read and write numbers to at least 100 in numerals and in words. <br> Use place value and number facts to solve problems. <br> Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures, also applying their increasing knowledge of mental and written methods. <br> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 . <br> Add and subtract numbers using concrete objects, pictorial representations, and mentally. | Year 1 <br> Count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number. <br> Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. <br> Given a number, identify one more and one less. <br> 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. 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Measure and begin to record the following: lengths and heights, mass/weight, capacity and volume, and time. <br> Sequence events in chronological order using language. <br> Recognise and use language relating to dates, including days of the week, weeks, months and years. <br> Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. <br> Recognise and name common 2-D and 3-D shapes. <br> Year 2 <br> Count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward and backward. <br> Recognise the place value of each digit in a two-digit number. <br> Identify, represent and estimate numbers using different representations, including the number line. <br> Compare and order numbers from 0 up to 100; use <, >and = signs <br> Use place value and number facts to solve problems. <br> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 . | Year 1 <br> Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. <br> Given a number, identify one more and one less. <br> 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. 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Show that addition of two numbers can be done in any order and subtrac
number from another cannot number from another cannot.
Recognise and use the inverse relationship between addition and subtraction and use this to check calcul
number problems. Recall and use multitication and division including recognising odd and even numbers, incluaing recognising odd and even numbers.
Show that multiplication of two numbers can be done in any order and division of one number by another cannot.
Solve problems involving multiplication and
division, using materials, arrays repeated division, using materials, arrays, repeated
addition, mental methods, and multiplication and division facts, including problems in contexts.
Choose and use appropriate standard units to
estimate and measure lenth/heigt in estimate and measure length/height in any
direction; mass; temperature; capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass,
volume/capacity and record the results using
$\geqslant$, <and $=$. $>$, <and $=$.
Recognise and use symbols for pounds and pence; combine amounts to make a particular value.
Find different co
Find different combinations of coins that equal the same amounts of money Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
Compare and sort common 2-D and 3-D
Sshapes and everycay objectst.
Asker simple questions by counting the number of objects in each category and sorting the categories by quantity

Add and subtract numbers using concrete objects, y
mentally. Recognise and use and Recognise and use the inverse relationship
between addition and subtraction and use this to check calculations and solve missing number problems. Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multitication, division and equals signs. Show that multipicication of two numbers can
be done in any order and division of one number by another cannot.
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication contexts.
Recognise, find, name and write fractions $1 / 3$, $1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity.
and recognise the equivalence of $2 / 4 / 2$ of $6=3$ Recognise and use symbols for pounds and pence; combine amounts to make particular value.
involving additiob and in subtraction of mont of the same unit, including giving change. Compare and sequence intervals of time Tell and write the time to five minutes, the hands on a clock face to show these times.
Know the number of minutes in an hour and the number of hours in a day shapes, including the number of edges vertices and faces.
Identify 2-D shapes on the surface of 3-D shapes.
Order an
Order and arrange combinations of
nathematical objects in patterns and sequences.
Use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation
in terms of right angles for quarter, half and three-quarter turns.
Interpret and construct simple pictograms,
tally charts, block diagrams tally charts, block diagrams and simple tables.
Ask and answer simple questions by counting Ask and answer simple questions by counting
the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.

Recall and use addition and subtraction fact to 20 fluently, an
facts up to 100 . facts up to 100.
Add and subtract numbers using concrete objects,
mentally.
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
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multiplication tables and write them usi the multiplication, division and equals signs. Show that multiplication of two numbers can be done in any order and division of one umber by another cannot.
Solve problems involving multiplication and
division, using materials arrats division, using materials, arrays, repeated adation, mental methods, and multiplication contexts.
Recognise, find, name and write fractions $1 / 3$ or quantity. and recognise tractions for example, $1 / 2$ of $6=3$ and recognise the equivalence of $2 / 4$ and $1 / 2$.
Choose and use appropriate standard units to estimate and measure length/height in any direction; mass; temperature; capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vesse
Compare and order lenoths mass volume/capacity and record the results using $\gg$ <and $=$.
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pence combine amols pence; combine a
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the number of objects in each category and sorting the categories by quantity.

Add and subtract numbers using concret bjects, pictorial representations, and mentally.
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Solve problems involving multiplication and division, using materials, arrays, repeated didition, mental methods, and multiplication contexts.
Recognise, find, name and write fractions $1 / 3$, $8,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity
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Order and arrange combinations of sequences.
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Compare and sequence intervals of time. and write the time to five minutes, including quarter past/to the hour and draw mes. times. the number of hours in a day. ally charts , cockstruct simple pictograms, Ask and answer questions about totaling and comparing categorical data.


| Autumn B | Spring B |
| :--- | :--- |
| Year 3 <br> Count from 0 in multiples of $4,8,50$ and $100 ;$ <br> find 10 o o 100 more or less than a given <br> number. <br> Recognise the place value of each digit in a <br> three-digit number. | Year 3 <br> Count from 0 in multiples of $4,8,50$ and $100 ;$ <br> find 11 or 100 more or less than a given <br> number. <br> Recognis the place value of each digit in a <br> three-digit number. |

Compare and order numbers up to 1000 . Add and subtract numbers mentally,
including: a three-digit number and including: a three-digit number and ones, a
three-digit number and tens, and a threedigitit number and hundreds
diitit number and hundreds.
Solve problems, including missing number Solve probiems, including missing number
problems, using number facts, place value, and more complex addition and subtraction.
Recall and use multiplication and division Recall and use multilicaction and division
facts for the 3,4 and 8 multiplication tables facts for the 3,4 and 8 multiplication tables.
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-
digit numbers using mental and progessing digit numbers, using mental
to formal written methods.
Solve problems, including missing number problems, involving multiplication and
division including division, including positive integer scaling
problems and correspondence problems in which n objects are connected to m objects. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: unit
fractions and non-unit fractions with small denominators.
Compare and order unit fractions, and fractions with the same denominators
Measure compare add and subract: Measure, compare, add and subtr
lengths; mass; volume/capacity. lengths; mass; volume/capacity.
Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts.
Tell and write the time from an analogue clock, including using Roman numerals from
to XII, and 12 -hour and 24-hour clock to 11 , and 12 -hour and 24 -hour clocks.
Know the number of seconds in a minute and the number of days in each month, year and leap year.
Compare
Draw 2-D shapes and enake 3-D shapes using Draw 2-D Dhapes and make e-D shapes using
modelling materials; recognise 3-D shapes in different orientations and describe them.
$\frac{\text { Year } 4}{\text { Recognis }}$
Recognise the place value of each digit in a four-digit number.
Order and compare
Identify, repmpare numbers beyond 1000 . usingify, rifereresent and estimate numbers using different representations.
Round any number to the nearest 10,100 or 1000.
Add and

Add and subtract numbers with up to 4 digits
using the formal written methods Using the formal written methods of
columnar addition and subtraction

## appropriate.

Estimate and use inverse operations to check answers to a calculation.
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. multiplication tables up to $12 \times 12$. Use place value, known and derived facts to multiply and divide mentally, including: multily lying by 0 and 1 ; dividing by 1 ;
multiplying together three numbers. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

Compare and order numbers up to 1000 . Identify, represent and estimate
using different representations Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical
problems involving these ideas Add and sulving these ideas. including: a three-digit number andy, three-digit number and tenss and a three digit number and hundreds.
digit number and hundreds.
Add and subtract numbers with up to three digits, using formal written methods of
columnar addition and subtraction columnar addition and subtraction. soroblems, using number facts, place value, and more complex addition and subtraction Recall and use multiplication and division
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Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-didit numbers times onedigit numbers, using mental and progressing
to formal written metho oo formal written methods
Solve problems, including missing numb
problems, involving multiticication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.
Count up and down in tenths; recognise that count up and down in tenths; recognise that
tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 .
Recognise, find and write fractions of a
discrete set of objects: unit fractions and
non-unit fractions with small denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
Recognise and
Recognise and show, using diagrams,
equivalent fractions with small denomin Add and subtract fractions with the same denominator within one whole.
Compare and order unit fractions, and
fractions with the same denominators.
fractions with the same denominators.
Solve problems that involve all of the above. Measure, compare, add and subtract: lengths; mass; volume/capacity.
Measure the perimeter of simple Measure the perimeter of simple 2-D shapes.
Add and subtract amount Add and subtract amounts of money to give
change, using both $£$ and $p$ in practical contexts.
Tell and write the time from an analogue clock, including using Roman numerals from 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' ${ }^{\prime}$ lock, 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.
Draw 2-D shapes and make 3-D shapes using
modelling materials; recognise 3 D shom modelling materials; recognise 3 -D shapes in
different orientations and describe them. Recognise angles as a a property of shape or a
description of ter description of a turn.

Add and subtract numbers with up to th
digits, using formal written methods columnar addition and subtraction.
Estimate the answer to calction Estimate the answer to a calculation and use inverse operations to check answers.
Solve problems, including missing num Solve problems, including missing number
problems, using number facts, place value, and more complex addition and subtraction
Recall and use multiplication and division Recall and use multipication and division
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Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-didit numbers times one-
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Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling
problems and correspondence problems in which $n$ objects are connected to $m$ objects. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 .
Recognise find and
Recognise, ind and write fractions of a
discrete set of objects: unit fractions and
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Add and subtract fractions with the same Add and subtract fractions with th
denominator within one whole.
Compare and order unit fractions, and fractions with the same denominators. Measure, compare, add and subtr
lengths; mass; volume/capacity. Measure the perimeter of simple 2-D shapes. Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts.
Tel and write the time from an analogue clock, including using Roman numerals fro
to xll, and 12-hour and 24 -hour clocks. 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 óclock, a.m./p.m., morning, afternoon, nooon and midnight.
Compare
Compare durations of events.
Recognise angles as a property of shape or a description of a turn.
Identify horizontal and
Identity horizontal and vertical lines and pairs of perpendicular and parallel lines.
Interpret and present data using bar charts, pictograms and tables.
Solve one-step and two-step questions using
information presented in scaled bar charts and pictograms and tables.

| Year 4 |
| :--- |
| Find 100 |

Find 1000 more or less than a given number. Count backwards th
negative numbers.
Recognise the place
four-digit number.
four-digit number.
Order and compare Round
1000.
Solve number and practical problems that large positive numbers.

Compare and order numbers up to Add and subtract numbers mentally,
including: a three-digit number and ones, three-digit number and tens, and a threedigit number and hundreds.
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction facts for the 3,4 and 8 multiplication tables. facts for the 3,4 and 8 multiplication tables.
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-
divit numbers, using mental and progressin to formal written methods.
Solve problems, including missing number problems, involving multipicication and division, including positive integer scaling
problems and correspondence roblems in which $n$ objects are connected to $m$ objects. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Recognise and use fractions as numbers: unit
fractions and non-unit fractions with small denominators.
Compare and order unit fractions, and fractions with the same denominators lengths; mass; volume/capacity. lengths; mass; volume/capacity.
Add and subtract amounts of money to give change, using both $£$ and $p$ in practical
contexts. contexts.
Tell and write the time from an analogue
clock, including using Roman numerals from to XII, and 12 -hour and 24 -hour clocks. Know the number of seconds in a minute and the number of days in each month, year and leap year.
Compare durations of events.
Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3 -D shapes in Year 4
Recognise the place value of each dist Recongise the place
four-digit number.
Order and compare numbers beyond 100 Identify, represent and estimate numbers using different representations.
Kound any number to the nearest 10,100 or
1000.
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. answers to a calculation
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Recall multiplication and division facts for Recaltiplication tables up to $12 \times 12$.
. Use place value, known and derived facts multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1 ;
multiplying together three numbers.
Multiply two-digit and three-digit numbers by a one-digit number using formal writen layout.

Compare and order numbers up to 1000 . Lentity, represent and estima Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Add and subtract numbers mentally including: a three-digit number and ones, a
three-digit number and tens, and a threedigit number and hundreds.
Add and subtract numbers with up to three digits, using formal written methods columnar addition and subtraction. problems, using number facts, place value, and more complex addition and subtraction Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables.
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-
digit numbers, using mental and progressing digit numbers, using menta
oo formal written methods.
Solve problems, including missing number
problems, involving multipication and division, including positive integer scaling problems and correspondence problems in Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 .
Recognise, find and write fractions of a
non-unit fractions with small denominators.
Recognise and use fractions as numbers: unit fractions and non-uniit fractions with small enominators.
Recognise and show, using diagrams, Add and subtract fractions with the same denominator within one whol
Compare and order unit fractions, and
fractions with the same denominators
Sractions with the same denominators.
Solve problems that involve all of the above. Measure, compare, add and subtract: lengths; mass; volume/capacity. Measure the perimeter of simple 2-D shapes. Change, using both $£$ and $p$ in practical contexts.
ell and write the time from an analogue clock, including using Roman numerals from 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 ${ }^{\prime}$ lock a.m./p.m.
midnight.
Rnow
now the number of seconds in a minute and the number of days in each month, year and eap year.
compare durations of events.
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 description of a turn.
dd and subtract numbers with up to digits, using formal written methods stimate the answer to a calculiation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Recall and use multiplication and division acts for the 3,4 and 8 multipicication tables.
Write and calculate mathematical statements for multiplication and division using the ultiplication tables that they know, ncluding for two-digit numbers times oneo formal written methods.
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling which n objects are connected to mobjects. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 ual parts and in dividit numbers or quantities by 10
cognise, find and write fractions of a n-unit fractions with small denominato ecognise and show, using diagrams, equivalent fractions with small denominator denominator within one whole. Compare and order unit fractions, and fractions with the same denominators Measure, compare, add and subtrat
lengths; mass; volume/capacity.
Measure the perimeter of simple 2-D shapes. Measure the perimeter of simple 2-D shapes,
Add and subtract amounts of money to give hange, using both $£$ and $p$ in practica contexts.
lland write the time from an analogue lock, including using Roman numerals fir
oxil, and 12 -hour and 24 -hour clocks stimate and read time with increasing ccuracy to the nearest minute; record and and hours; use vocabulary such as ó'clock, m./p.m., morning, afternoon, noon and midnight.
Compare durations of events.
ecognise angles as a property of shape or a description of a turn. of perpendicular and parallel lines terpret and present data using bar charts, ctograms and tables.
Solve one-step and two-step questions using formation presented in scaled bar charts and pictograms and tables.

Year 4
Find 1000
Ount backwards through zero to no numbe negative numbers.
Recognise the place value of each digit in our-digit number.
four-dige number.
Order and compare numbers beyond 1000 found any number to the neares 10,100 1000.
inolve all of the aboeve al problems that large positive numbers.

Identify right angles, recognise that two ris angles make a half-turn, three make three
quarters of a turn and four a complete turn iduaters of a turn and four a complete turn less than a right angle.
$\frac{\text { Year } 4}{\text { Count in }}$ Count in multiples of 6, 7, 9, 25 and 1000 . Recognise the place value of each digiti in a Recognise the place
four-digit number.
Identify, represent and estimate numbers Identify, represent and estimater
using different representations. Luing different representations.
Round any number to the nearest 10,100 or 1000.
Solve nu

Solve number and practical problems that
involve all of the above and with increasing large positive numbers. Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where
appropriate. appropriate
answers to a calculatio
Solve addition and subtraction two-step problems in contexts, deciding which
operations and methods to Recall multiplication and division facts for multiplication tables up to $12 \times 12$. Use place value, known and derived facts to multiply and divide mentally, including.
multiplying by 0 and 1 ; dividing by 1 ; multiplying by 0 and 1 ; dividing by 1 ;
multiplying together three numbers. multitilying together three numbers.
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
Solve problems involving multiplying and
adding, including using the distributive law to adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and
correspondence problems.

$$
\begin{aligned}
& \text { correspondence problems. } \\
& \text { Recosnise and show, using }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Recognise and show, using diagraral } \\
& \text { of common equivavent fractions. } \\
& \text { Solve nroblems involvino increasin }
\end{aligned}
$$

Solve problems involving in fractions to calculate quantities, and fractions to divide quantities, including non-unit number.
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 hundredth.
Round decimals with one decimal place to the nearest whole number.
Compare numbers with the
Compare numbers with the same number of decimal places up to two decimal places.
Measure and calculate the perimeter of a rectilinear figure in centimetres and metres. Estimate, compare and calculate different measures, including money in pounds and pence.
Read,
analogue and convert time between nalogue and digital 12 - and 24 -hour clocks. Compare and classify geometric shapes, including quadriliterals and triangles, based on their properties and sizes. compare and order angles up to two right angles by size.

Read Roman numerals to 100 and know that over time, the numeral system changed to
include the concept of zero and place value Add and subtract numbers with up to 4 digits using the formal written methods of appropriate Estimate and use inverse operations to check answers to a calculation.
Solve addition and subtraction two-step
problems in contexts, deciding which operations and methods to use and why. Recall multiplication and division facts for multiplication tables up to $12 \times 12$.
Use place value, known and derived Use place value, known and derived facts to
multioly and divide mentally, including. multiplying by 0 and 1 ; dividing by 1 ; multiplying together three numbe Recognise and use factor pairs and
commutativity in mental calculations Multiply two-digit and three-digitit numbers by a one-digit number using formal written layout.
Solve prot
Solve problems involving multiplying and
adding including using the distribution adding, including using the distributive law to integer scaling problems and harder correspondence problems.
Recognise and show, using. diagrams, families common equivalent fractions. count up and down in hundredths; reco object by one hundred and dividing tenths by object by
ten.
Solve pros
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit
fractions where the answer is a whole fractions
number
Add and
Add and subtract fractions wir denominator.
Recognise and write decimal equivalents of any number of tenths or hundredths. Recognise and write decimal equivalents to
$1 / 4,1 / 2,3 / 4$. $1 / 2,1 / 2,3 / 4$.
Find the
Fin
Find the effect of dividing a one- or two-digit
number by 10 number by 10 and 100 , identifying the value
of the digits in the of the digits in
and hundredth.
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 problem involving fractio
decimal places.

## decimal places. Convert betwee

Convert between different units of measure. Mectile and calculate the perimeter of a Find the area of rectilimearses and metr Find the area of rectilinear shapes by counting squares
Estimate, compar Estimate, compare and calculate differen
measures, including money in pounds and pence.
Compar
Compare and classify eeometric shapes,
including quadrilaterals and trianges on their properties and sizes.
Describe positions on a 2-D grid as coordinates in the first quadrant.

Solve problems involving multiplying and dding, including using the distributive law integer scaling problems and harded teger scaling problems and
correspondence problems Recognise and show, using of common equivalent fractions. Solve problems involving increasingly harder tractions to calculate quantities, and fractions to divide quantities, including non-unit
fractions where the answer is a whole number.
Recognise and write decimal equivalents of any number of tenths or hundredths.
Convert between differ hn Convert between different units of measure.
Measure and calculate the perimeter of Measure and calculate the perimeter of a
rectilinear figure in centimetres and metres. rectiinear figure in centimetres and metr
Estimate, sompare and calculate different measures, including money in pounds an pence.
Read,
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. Interpret and present discrete and
continuous data using appropriate graphical methods, including bar charts and time graphs.
Solve comparison, sum and difference
problems using information presented in charts, pictograms, tables and other graphs.

Identify right angles, recognise that two right angles make a half-turn, three make three Identify whethern and four a complete turn, less than a right angle.
$\frac{\text { Year } 4}{\text { Count in }}$
Count in multiples of $6,7,9,25$ and 1000 . ind 1000 more or less than a given number Recognise the place value of each digit in a four-didit number.
Identify represent
Identify, represent and estimate numbers
using different representations using different representations.
Round any number to the nearest 10,100 or 1000 .
Solve number and practical problems that large positive numbers. With increasingly Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subbraction where appropriate.
stimate and use inverse operations to check swers to a calculation.
Solve addition and subtraction two-step problems in contexts, deciding which
operations and methods to use and operations and methods to use and why.
Recall multiplication and division facts for multiplication tables up to $12 \times 12$. Use place value, known and derived facts to multiply and divide mentally, including
multiolying by 0 and 1. dividing by 1 ; multiplying by 0 and 1 ; dividing by 1 ;
multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Multiply two-digit and three-digit numbers by layout. bolve pr.
adve problems involving multiplying and
adding, including using the distributive law to multiply two digit numbers by one digit, teger scaling problems and harder correspondence problems. Recognise and show, using diagra
of common equivalent fractions. 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.
Find the effect of dividing a one- or two-digit Of the digits in the answer as ones tenths and hundredth.
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 decimal places up to two decimal places.
Measure and calculate the perimeter of a rectilinear figure in centimetres and metres. Estimate, compare and calculate different measce, pence.
Read, writ
alogue and convert time between analogue and digital 12 - and 24 -hour clock. Compare and classify geometric shapes, including quadrilaterals and triangles, based
on their proderites and sizes their properties and sizes. compare and order angles up to two right angles by size.

Read Roman numerals to 100 and know that ver time, the numeral system changed to
concept of zero and place value Add and subtract numbers with up to 4 digits using the formal written methods of propriate
stimate and use inverse operations to check nswers to a calculation.
solve addition and subtraction two-ste problems in contexts, deciding which operations and methods to use and why.
Recall multiplication and division facts for multiplication tables up to $12 \times 12$. se place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1 ; dividing by 1 ,
mutiplying together three numbers. Recognise and use factor pairs and mutativity in mental calculations.
Multiply two-digit and three-digit numbers by ayout.
hout.
olve problems involving multiplying and ding, including using the distributive law to teger scaling problems and harder correspondence problems.
ecognise and show, using diagrams, families common equivalent fractions. Count up and down in hundredths; recognise
that hundredths arise when dividing an object by one hundred and dividing tenths by object by
ten.
Solve pro
Solve problems involving increasingly harder ractions to calculate quantities, and fractions to divide quantities, including non-unit fractions
fumber. number.
Add and sub
Add and subtract fractions with the same enominator.
Recognise and write decimal equivalents any number of tenths or hundredths. $1 / 4,1 / 2,3 / 4$
Find the
ind the effect of dividing a one-or two number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredth.
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 problem volving fractions and decimals to ecimal places.
Measure and calculferent units of measure. cctilinear figure ince the perimeter of a Ind the area of rectilinear shas and metr Founting squares.
co res
counting squares.
stimate, compare and calculate diff Estimate, compare and calculate different
measures, including money in pounds and pence.
Compare and Classify geometric shapes,
including quadriliaterals and tricingles
cluding quadrilaterals and triangles, based Describe posities and sizes. coordinates in the first quadrant.

Describe movements between positions as translations of
Plot specified points a complete a given polygon.
Inmplete a given polygon.
interpet and present discrete and
continuous data using appropriate graphical methods, including bar charts and time graphs.
Solve co
Solve comparison, sum and difference problems using information presented in bar
charts, pictograms, tables and other graphs

Identify lines of symmetry in 2-D shape presented in different orientations. Complete a simple symmetric figure with
respect to a specific line of symmetry.
escribe movements between positions as and up/down.
ot specified points and draw sides to
complete a given polygon. terpret and present discrete and continuous data using appropriate graphica graphs.
Solve comparison, sum and difference Sive comparison, sum and difference charts, pictograms, tables and other graphs.

## National Curriculum Progression

 supported by Abacus FrameworkYears 5 and 6
$\frac{\text { Year } 5}{\text { Interpret negative numbers in context, count }}$ forwards and backwards with positive and negative whole numbers, including through zero.
Round any number up to 1000000 to the nearest $10,100,1000,10000$ and 100000 . Solve number problems and practical
problems that involve all of the above problems that involve all of the above.
Read Roman numerals to $1000(\mathrm{M})$ and Read Roman numerals to $1000(\mathbb{N})$ and
recognise years written in Roman numerals. Add and subtract whole numbers with more than 4 digits, including using formal written methods.
Ad and subtract numbers mentally with increasingly large numbers. cre ruunding to check answers to
calculations and determine, in the context of a problem, levels of accuracy.
Solve addition and acubraction
sobve addition and subtraction multi-step oberems in contexts, deciding which Identify multiples and factors, including finding all factor pairs of a number, and ommon factors of two numbers Multip fumbers up to 4 digits by a one- or method, including long multiplication for two-digit numbers.
Divide numbers up to 4 digits by a one-digit number using the formal written method of
short division and interpret remainders appropriately for the context.
Multiply and divide whole numbers and those involving decimals by 10,100 and 1000 . Recognise and use square numbers and cube cubed.
Solve problems involving addition, subtraction, multiticaction and division and a combination of these, including ding the meaning of the equals
sign.
Solve problems involving multiplication and
divison division, including scaling by simple fractions and problems involving simple rates Identity, 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.

| $\begin{aligned} & \text { Yea } \\ & \begin{array}{l} \text { Rea } \\ \text { at } \\ \text { ea } \\ \text { Col } \\ \text { pon } \\ 000 \end{array} \end{aligned}$ |  |
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$\underset{\text { Year } 5}{ }$

## Autumn B

Read, write, order and compare numbers to at least 1000
aech digit.
Cunt forwards or backwards in steps of cowers
pow 000
Solve number problems and practical roblems that involve all of the above. than 4 digits, including using formal written methods.
Add and subtract numbers mentally with ccreasingly large numbers.
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
dentify multiples and factors, including nding all factor pairs of a number, an common factors of two numbers. Multiply numbers up to 4 digits by a one- or wo-digit number using a formal written
method, including long multiplication for two-digit numbers. Multiply and divide numbers men drawing upon known facts Divide numbers up to 4 digits by a one-digit short division and interpret remainders appropriately for the context.
Multiply and divide whole numbers and those involving decimals by 10,100 and 1000 .
Solve problems involving multiplication division including using their knowledge of factors and multiples, squares and cubes. Solve problems involving addition, subtraction, multiplication and division and combination of these, including understa
sign.
Compare
Compare and order fractions whose
are all multiples of the same umber
write equivalent fractions fa given fraction, represented visual including tenths and hundredths.
Read and write decimal numbers
Read and write decimal numbers as fractions. ound decimals with two decimal place decimal place.
decimal place.
Read, write, order and compare numbers
with up to three decimal places.

Summer B
Year 5 St negative numbers in context, count forwards and backwards with positive and negative whole numbers, including throug negative
zero.
Round any number up to 1000000 to the Solve number problems and practical oblems that involve all of the above problems that involve all of the above.
Read Roman numerals to 1000 ( $M$ ) and recognise years written in Roman numeras Add and subtract whole numbers with mor tan 4 digits, inclucing using formal writte methods.
Ad and subtract numbers mentally with creasingly large numbers.
se rounding to check answers to
calculations and determine, in the context of problem, levels of accuracy. Soblems in contextsts, deciding which perations and methods to use and why.
dentify multiples and factors, including nding all factor pairs of a number, and common factors of two numbers Wultiply numbers up to 4 digits by a one- or ethod, including long multiplication for o-digit numbers.
Divide numbers up to 4 digits by a one-digit mber using the formal written method appropriately for the context.
Multiply and divide whole numbers and thos volving decimals by 10,100 and 1000 umbers and the notation for squared and cubed.
Solve problems involving addition,
subtraction, multiplication and division and a Combination of these, including nderstanding the meaning of the equals
sign.
Solve problems involving multiplication and dision, incluaing scaling by simple fractions d problens invol wis simperates, of a given fraction, represented visually, icluding tenths and hundredths. Recognise mixed numbers and improper other and write mathematical statements as a mixed number.

Use all four operations to solve problems involving measur
including scaling.
Draw given angles, and measure them in degrees.
Use the
Use the properties of rectangles to deduce
related facts and find missing lengths and angles.
Distinguish between polygons based on reasoning about equal poiygons based on reasoning about equal
sides and angles.
Solve comparison, sum and difference Solve comparison, sum and difference
problems using information presented in a problems using information presented in a
line graph. line graph.
Year 6
$\frac{\text { Year } 6}{\text { Read, write, order and compare numbers up }}$ to 10000000 and determine the value of each digit. Round any whole number to a required degree of accuracy.
Multiply multidi igit
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 writte
method of long division, and interpret method of long division, and interpret
remainders as whole number remainder fractions, or by rounding, as appropriate for the context.
Perform mental calculations, including with mixed operations and large numbers. and prime numbers.
Solve addition ans. problems in contexts deciding whiti-step operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division Add and subtract fractions with different denominators and mixed numbers, using the Multiply simple pairs of proper writing the answer in its simplest form. Divide proper fractions by whole numbers.
Associate a fraction with division and Associate a fraction with division and calculate dection.
simple fraction. 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 places giving answers up to three decimal places.
Multiply one-digit numbers with up to two decimal places by whole numbers.
Solve problems which require answers to be rounded to specified degrees of accuracy. conversion of units of measure, using decima notation up to three decimal places where appropriate
Draw 2-D shapes using given dimensions and
angles.
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 radius, diameter and circumference and
know that the diameter is wwice the radius. Recognise angles where they meet at a point,
are on a straight line, or are verticaty

Read and write decimal numbers as fractions. 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 with up to three decimal places.
Solve problems involving number up to three decimal places.
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 $1 / 2,1 / 4$, $15,2 / 5,4 / 4 /$ and those fractions with a
denominator of a multiple of 10 or 25 .
Measure and calculate the perimeter of
composite rectilinear shapes in centimetres and metres.
Calculate and compare the area of
rectangles, and including using standard
units, square centimetres and square metres and estimate the area of irregular shapes. Estimate volume ffor example, using 1 cm 3 blocks to build cuboids and capacity Solve problems involving converting between Units of time.
Use all four operations to solve problems Use al four operations to solve problems
involving measure using decimal notation, including scaling.
dentify 3 -D shapes
dentify 3-D shapes, including cubes and
other cuboids, from $2-D$ representation Use the properties of rectangles to deduce related facts and find missing lengths and angles.
Identify,
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. Solve comparison, sum and difference
problems using information presented in line graph.
Complete, read and interpret information in tables, including timetables.
$\frac{\text { Year } 6}{\text { Read, writ }}$
Read, write, order and compare numbers up
to 10000000 and determine the value of each digit.
Use negative numbers in context, and calculateine intervals across zero.
Multiply multi-digitit numbers un Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the for
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 number
number using the formal written method of

Convert
easure.
composite rectilinear shapes in centimetres
and metres.
Solve problen
units of time.
Know angles are measured in degrees:
reflex angles. compare acute, obtuse and
reflex angle
Draw given
degrees.
Identify: angles at a point and one whole
turn; angles at a point on a straight line and a turn; and other multiples of 900 .
Distinguish between regular and ir polygons based on reasoning about equal Polygons based
sides and angles.
Y.
Year 6
Use negativ
Use negative numbers in context, and
calculate intervals across zero
calculate intervals across zero.
Solve number and practical problems that involve all of the above.
Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
Perform mental calculations, including wither mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving
the four operations. Solve addition and
problems in contexts, deciding which probems in contexts, deciding which
operations and methods to use and why. Solve problems involving addition,
subtraction, multiolication and divis Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accurac
se common factors to simplify fractions; use common multiples to express fractions in the sme denomination.
Compare and order fractions, including fractions $>1$
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Identify the value of each digitit in numbers given to three decimal places and multiply
and divide numbers by 10,100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to tw decimal places by whole numbers.
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.
Solve problems involving the calculation of percentages and the use of percentages for mparison
Express missing number problems
algebraically.
Find pairs of numbers that satisfy an equatio with two unknown
numerate possibil
two variables.
Use, read, write and convert between
standard units, converting measurements of

Use all four operations to solve problems involving measur.
including scaling.
Draw given angles, and measure them in
degrees
Use the properties of rectangles to deduce angles.
ans
Disting Distinguish between regular and irregular polygons based on reasoning about equal
sides and angles
Solve comparison, sum and difference problems using information presented in a line graph.
Year 6
Read, write, order and compare numbers up to 10000000 and determine the value of each digit. Round any whole number to a required degree of accuracy
Multioly multi-digit
a two-digitit 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 whole number using the formal written method of long division, and interpret
remainders as whole number remainders fractions, or by rounding, as appropriate for he context.
Perform mental calculations, including with mixed operations and large numbers. dentify common factors, common multiples and prime numbers.
Solve addition and subtraction multi-step problems in contexts, deciding which Solve problems involving addition, subtraction, multiplication and division. Add and subtract fractions with different concept of equivalent fractions Wultiply simple pairs of proper writing the answer in its simplest form. Divide proper fractions by whole number Associate a fraction with division and calculate decimal
simple fraction.
Identify the value of each digit in numbers given to three decimal places and multiply
and divide numbers by 10,100 and 1000 div divide numbers by 10,100 and 1000 Multiply one-digitit numbers with up to two decimal places by whole numbers.
Solve problems which require answers to be rounded to specified degrees of accuracy. Solve problems involving the calculation and
conversion of units of measure, using decima notation up to three decimal places where appropriate
Draw 2-D shapes using given dimensions and Draw 2-D
angles.
Compar
Compare and classify geometric shapes based their properties and sizes and find unknown angles in any triangles, quadriaterals, and regular polygons. strius diameter and circumferen, including now that the diameter is twice the radius. Recognise angles where they meet at a point,有

Add and subtract fractions with the same nultiples of the same number
ultiply proper fractions and mixed numbers nd diagrams.
ead and write decimal numbers as fractions. Recognise and use thousandths and relat them to tenths, hundredths and decimal
quivalents. the nearest whole number and to one decimal place.
Read, write, order and compare numbers with up to three decimal places.
decimal places.
Recognise the per cent symbol an inderstand that per cent relates to 'number fraction with denominator 100 , and as a ecimal.
Solve problems which require knowing ercentage and decimal equivalents of $1 / 2$, 2 $25,1 / 5$ and those fractions with a denominator of a multiple of 10 or 25 . composite rectilinear shapes in centimetres and metres.
Iculate and compare the area of Units, square centimetres and square metres and estimate the area of irregular shapes. stimate volume ffor example, using 1 cm 3 locks to build cuboids and capacity. Se problems involving converting betw units of time
Se all four operations to solve problems volving measure using decimal notation |uding scaling.
entify 3-D shapes, including cubes and other cuboids, from 2-D representations. se the properties of rectangles to deduce related facts and find missing lengths and gles.
Itentify, describe and represent the a shape following a reflection or and know that the shape has not changed. Solve comparison, sum and difference loms using information presented in ine graph.
Complete, read and interpret information in tables, including timetables
Year 6
Read, writ
Read, write, order and compare numbers up
10 10000000 and determine the value of each digit.
Use negative numbers in context, and calculate intervals across zero.
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 ethod of long division, and interpret as whole number remainders by rounding, as appropriate for Divide numbers up to 4 digits by a two-dig decimal places.
Convert between miles and kilometres Recognise that shapes with the same ares. can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes.
Calculate the area of parallelograms and
triangles.
Calculate, estimate and compare volume
cubes and cuboids using standard units, including cubic centimetres and cubic metres,
and extending to other units. and extending to other units. Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles,

Describe positions on the full coordinate grid. Draw and translate simple shapes on the coordinat
axes. Interpret and construct pie charts and lin graphs and use these to solve problems. average
hort division where appropriate, inter
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 the four operations.
Solve addition and subtraction multi-step
problems in contexts, problems in contexts, deciding which
operations and methods to use and why Solve problems involving addition, subveraction, multiplication and division. Use common factors to simplify fractions; use same denomination.
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. writing the answer in its simplest form. Divide proper fractions by whole numbers. Identify the value of each digit in numbers given to three decimal places and multiply
and divide numbers by 10,100 and 1000 and divide numbers by 10,100 and 1000
giving answers up to three decimal places. 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 involving the relative sizs two quantities where missing values can be found by using integer multiplication and division facts.
Solve problems
Solve problems involving the calculation of
percentages and percentages
comparison. Solve problems involving similar shapes where the scale factor is known or can be
found. found.
Solve problems involving unequal sharing and
grouping grouping us
multiples.
multiples.
Use simple formulae
Generate and describe linear number
sequences.
Express missin
algebraically.
expess msichy.
alsebraicaly.
Find pairs of
Find pairs of numbers that satisfy an equation with two unknowns
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 length, mass, volume and time from a sm
unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimas places.
Recognise when
Kecognise when it is possible to
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