Year 5

Unit 1a

Number and Place Value

Recognise the value of digits in numbers up to 1 million

Read 6-digit numbers in words and write using numerals, including zero as a placeholder

Read 6-digit numbers in numerals and write in words, including zero as a placeholder

Read 5-digit numbers in numerals and write in words, including zero as a place holder

Read 5-digit numbers in words and write using numerals including zero as a place holder

Recognise the value of digits in 5-digit numbers

Represent 5-digit numbers

Represent numbers up to 1 million

Compare 5-digit numbers

Identify and represent 5-digit numbers on a number line

Term 1

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Order numbers with a mixed number of decimal places

Round numbers with 2 decimal places to 1 decimal place

Round numbers with 2 decimal places to the nearest whole number

Compare numbers with a mixed number of decimal places

Order decimal numbers with 3 decimal places

Compare a set of numbers written to three decimal places

Position decimal numbers, with up to 3 decimal places, on a number line

Identify decimal numbers, with up to 3 decimal places, on a number line

Year 5

Unit 2

Decimals

Write decimal equivalents of any number of thousandths



Recognise that thousandths arise from dividing a number (or object) into one thousand equal parts and dividing hundredths by ten

Read a number with 3 decimal places

Represent decimal numbers with up to 3 decimal places



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Year 5

Unit 3

Geometry: Properties of Shapes

Identify pyramids from nets

Identify prisms from nets

Identify cuboids from nets

Identify cubes from nets

Term 1

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Year 5

Unit 4

Addition and Subtraction

Use column subtraction for numbers with 1,2 or 3 decimal places when exchanging is required

Add two decimal numbers choosing an efficient strategy

Subtract two decimal numbers choosing an efficient strategy

Use column addition for numbers with 3 decimal places when regrouping is required

Use column addition for numbers with 1,2 or 3 decimal places when regrouping is required

Use column subtraction for numbers with 3 decimal places when exchanging is required

Use column subtraction for two numbers with more than 4 digits when regrouping is required in multiple columns

Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns

Subtract two whole numbers choosing an efficient mental strategy

Add two whole numbers choosing an efficient mental strategy

Term 2

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Divide a whole number by 1000

Divide a decimal by 10

Divide a decimal by 100

Multiply a decimal by 100

Multiply a decimal by 10

AMultiply a whole number by 1000

Multiply a whole number by 100

Multiply a whole number by 10

Divide a whole number by 10

Divide a whole number by 100

Year 5

Unit 5

Multiplication and Division: Powers of 10



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Year 5

Unit 6

Multiplication and Division: Properties of Number

Find multiples of a given number

Find square numbers and use the notation for squared

Find cube numbers and use the notation for cubed

Know how to test if a number up to 100 is prime

Find the common factors of two numbers

Express a given number as the product of prime factors

Find prime and composite numbers up to 20

Find prime numbers up to 20



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Year 5

Unit 7a

Multiplication and Division: Written Methods Multiplication

Use known facts and place value to multiply a whole number by a decimal

Multiply a one-digit number by a decimal (1dp) using a formal written method

Multiply a one-digit number by a decimal (2dp) using a formal written method

Use efficient methods to multiply mentally

Multiply 4 digit numbers by 2 digit numbers using long multiplication

Multiply 3 digit numbers by 2 digit numbers using long multiplication

Multiply 2 digit by 2 digit numbers using long multiplication

Multiply numbers up to 4-digits by a one-digit number using short multiplication

Multiply 2 digit by 2 digit numbers using the distribiutive law

Term 3

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Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with a remainder

Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder



Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder

Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remainder

Year 5

Unit 7b

Multiplication and Division: Written Methods Division



Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with no remainder



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Describe a reflection

Carry out a reflection using a line parallel to the axes and crossing the object

Carry out a reflection using a line parallel to the axes including touching the object

Year 5

Unit 8

Geometry: Position and Direction

Term 3

Know what congruence means

Carry out a translation described using mathematical language

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Year 5

Unit 9

Fractions, Decimals, and Percentages Road Map

Write any percentage as a decimal

Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5

Establish percentage equivalents of fractions with a denominator of multiples of 10

Establish percentage equivalents of fractions with a denominator of multiples of 25

Write any percentage as a fraction with a denominator of 100

Understand that per cent relates to number of parts per hundred

Write a number less than 1 with three decimal places as a fraction

Write a number less than 1 with two decimal places as a fraction

Write a number less than 1 with one decimal place as a fraction

Represent tenths and hundredths

Order fractions whose denominators are multiples of the same number

Compare fractions whose denominators are multiples of the same number

Identify equivalent fractions represented visually

Term 4

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Year 5

Unit 10

Measurement: Length, Mass, and Capacity Road Map

Convert between litres and millilitres using decimal notation

Know approximate equivalences between metric and imperial units including pounds and pints

Know approximate equivalences between inches and centimetres

Convert between centimetres and millimetres using decimal notation

Convert centimetres to metres using decimal notation

Convert metres to centimetres using decimal notation

Convert metres to kilometres using decimal notation

Convert kilometres to metres using decimal notation

Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated

Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units

Convert between kilograms and grams using decimal notation

Term 4

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Multiply mixed number by *a* whole number (beyond whole)

Multiply mixed number by *a* whole number

Multiply non-unit fraction by *a* whole number

Year 5

Unit 11c

Fractions: Calculating



Multiply unit fraction by *a* whole number



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Add mixed and proper denominator multiples = mixed number answer

Add mixed and proper denominator multiples = mixed number answer (beyond whole)

Add mixed and proper same denominator = mixed number answer (beyond whole)

Add mixed and proper same denominator = mixed number answer

Add proper fractions denominator multiples = mixed number answer

Year 5

Unit 11a

Fractions: Calculating, Addition

Add proper fractions denominator multiples within the whole

Convert a mixed number into an improper fraction

Convert an improper fraction into a mixed number



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Year 5

Unit 11b

Fractions: Calculating

Subtract proper fractions denominator multiples from mixed denominator multiples within the whole

Subtract proper fractions from mixed denominator multiples (across whole)

Subtract proper fractions denominator multiples within the whole

Subtract proper from mixed same denominator (across whole)

Subtract proper from mixed same denominator within the whole

Term 5

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Year 5

Unit 12

Measurement: Area and Volume

Find the volume of 3D shapes

Estimate capacity

Find an estimate for the area of shapes that are not rectangles

Calculate the area of squares

Make connections between arrays and calculating the area of rectangles

Compare the area of rectangles (not squares)



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Year 5

Unit 13

Geometry: Properties of Shapes

Identify and find angles at a point

Identify and find angles at a point on a straight line

Use the properties of rectangles to find missing lengths and angles

Know the difference between a regular and an irregular polygon

Use a protractor to measure acute angles

Use a protractor to measure obtuse angles

Use a protractor to measure reflex angles

Use a protractor to draw acute angles

Use a protractor to draw obtuse angles

Use a protractor to draw reflex angles

Identify reflex angles

Know angles are measured in degrees

Estimate acute, obtuse and reflex angles



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Convert from days to weeks

Convert from hours to days

Convert from minutes to hours

Year 5

Unit 14

Measurement: Time

Convert from seconds to minutes

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Maths Club



Read and interpret infromation given in a line graph

Read and interpret information given in a table

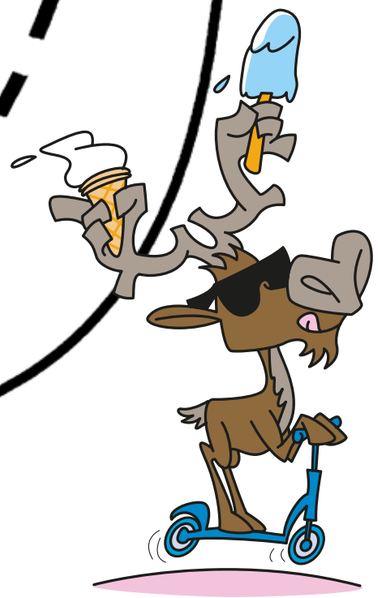
Year 5

Unit 15

Statistics:



Read and interpret information given in a timetable



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