



Place Value National Curriculum Statements

Count in multiples of 25 and 1000

Find 1000 more or less than a given number

Count backwards through zero to include negative numbers

Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)

Order and compare numbers beyond 1000

Identify, represent and estimate numbers using different representations [*Some areas of addition and subtraction*]

Round any number to the nearest 10, 100 or 1000

Solve number and practical problems that involve all of the above and with increasingly large positive numbers

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.

Manageable Steps

Round to the nearest 10

Round to the nearest 100

Count in 1,000s

1,000s, 100s, 10s and 1s

Partitioning

The number line to 10,000

1,000 more or less

Compare 4-digit numbers

Order numbers

Round to the nearest 1,000

Count in 25s

Negative numbers

Roman numerals

Addition and Subtraction National Curriculum Statements

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

Manageable Steps

Add and subtract 1s, 10s, 100s and 1,000s

Add two 4-digit numbers – no exchange

Add two 4-digit numbers – one exchange

Add two 4-digit numbers – more than one exchange

Subtract two 4-digit numbers – no exchange

Subtract two 4-digit numbers – one exchange

Subtract two 4-digit numbers – more than one exchange

Efficient subtraction

Estimate answers

Checking strategies

Multiplication National Curriculum Statements

Recall multiplication and division facts for multiplication tables up to 12×12

Use place value, known and derived facts to multiply and divide mentally, including: 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 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.

Manageable Steps

11 and 12 times-tables

Multiply 3 numbers

Factor pair

Efficient multiplication

Written methods

Multiply 2-digits by 1-digit

Multiply 3-digits by 1-digit

Divide 2-digits by 1-digit

Divide 3-digits by 1-digit

Correspondence problems

Multiply by 10

Multiply by 100

Divide by 10

Divide by 100

Multiply by 1 and 0

Divide by 1 and itself

Multiply and divide by 6

6 times-table and division facts

Multiply and divide by 9

9 times-table and division facts

Multiply and divide by 7

7 times-table and division facts

Fractions National Curriculum Statements

Recognise and show, using diagrams, families of common equivalent fractions

Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

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

Recognise and write decimal equivalents of any number of tenths or hundredths

Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$

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

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 problems involving fractions and decimals to two decimal places.

Manageable Steps

What is a fraction?

Equivalent fractions

Fractions greater than 1

Count in fractions

Add 2 or more fractions

Subtract 2 fractions

Subtract from whole amounts

Calculate fractions of a quantity

Problem solving – calculate quantities

Recognise tenths and hundredths

Tenths as decimals

Tenths on a place value grid

Tenths on a number line

Divide 1-digit by 10

Divide 2-digits by 10

Hundredths

Hundredths as decimals

Hundredths on a place value grid

Divide 1 or 2-digits by 100

Make a whole

Write decimals

Compare decimals

Order decimals

Round decimals

Halves and quarters

Measurement National Curriculum Statements

Convert between different units of measure [for example, kilometre to metre; hour to minute]

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

Find the area of rectilinear shapes by counting squares

Estimate, compare and calculate different measures, including money in pounds and pence

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.

Manageable Steps

Kilometres

Perimeter on a grid

Perimeter of a rectangle

Perimeter of rectilinear shapes

What is area?

Counting squares

Making shapes

Comparing area

Pounds and pence

Ordering money

Estimating money

Working with money

Four operations and money

Hours, minutes and seconds

Years, months, weeks and days

Analogue to digital – 12 hour

Analogue to digital – 24 hour

Geometry - Properties of Shape National Curriculum Statements

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes

Identify acute and obtuse angles and compare and order angles up to two right angles by size

Identify lines of symmetry in 2-D shapes presented in different orientations

Complete a simple symmetric figure with respect to a specific line of symmetry.

Manageable Steps

Identifying angles

Compare and order angles

Triangles

Quadrilaterals

Symmetry

Lines of symmetry

Complete a symmetric figure

Geometry – Position and Direction National Curriculum Statements

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

Plot specified points and draw sides to complete a given polygon.

Manageable Steps

Describe position

Drawing on a grid

Moving on a grid

Describe movement on a grid

Statistics National Curriculum Statements

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 bar charts, pictograms, tables and other graphs.

Manageable Steps

Interpret charts

Comparison, sum and difference

Introducing line graphs

Line graphs