



Number and Place Value National Curriculum Statements

Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.
[Some areas of addition and subtraction and multiplication and division]

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

Compare and order numbers up to 1000

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

Read and write numbers up to 1000 in numerals and in words

Solve number problems and practical problems involving these ideas.

Manageable Steps

Hundreds

Numbers to 1,000

100s, 10s and 1s

Number line to 1,000

Find 1, 10, 100 more or less

Compare objects

Compare numbers

Ordering numbers

Count in 50s

Number - Addition and Subtraction - National Curriculum Statements

Add and subtract numbers mentally, including:

- ♣ a three-digit number and ones
- ♣ a three-digit number and tens
- ♣ a three-digit number and hundreds

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

Estimate the answer to a calculation and use inverse operations to check answers

Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Manageable Steps

Add and subtract multiples of 100

Add and subtract 3-digit and 1-digit numbers – not crossing 10

Add 3-digit and 1-digit numbers – crossing 10

Subtract a 1-digit number from a 3-digit number – crossing 10

Add and subtract 3-digit and 2-digit numbers – not crossing 100

Add 3-digit and 2-digit numbers – crossing 100

Subtract a 2-digit number from a 3-digit number – crossing 100

Add and subtract 100s

Spot the pattern – making it explicit

Mixed addition and subtraction problems

Add and subtract 2-digit and 3-digit numbers – not crossing 10 or 100

Add 2-digit and 3-digit numbers – crossing 10 or 100

Subtract a 2-digit number from a 3-digit number – crossing 10 or 100

Add two 3-digit numbers – not crossing 10 or 100

Add two 3-digit numbers – crossing 10 or 100

Subtract a 3-digit number from a 3-digit number – no exchange

Subtract a 3-digit number from a 3-digit number – exchange

Estimate answers to calculations

Multiplication and Division - National Curriculum Statements

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 to formal written methods

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.

Manageable Steps

Multiplication – equal groups.

Multiply by 3

Divide by 3

The 3 times-table

Multiply by 4

Divide by 4

The 4 times-table

Multiply by 8

Divide by 8

The 8 times-table

Comparing statements

Related calculation

Multiply 2-digits by 1-digit – no exchange

Multiply 2-digits by 1-digit – exchange

Divide 2-digits by 1-digit

Divide 100 into 2,4,5 and 10 equal parts

Divide with remainders

Scaling

How many ways?

Fractions National Curriculum Statements

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 show, using diagrams, equivalent fractions with small denominators

Add and subtract fractions with the same denominator within one whole

Compare and order unit fractions, and fractions with the same denominators

Solve problems that involve all of the above.

Manageable Steps

Making the whole

Tenths

Count in tenths

Fractions on a number line

Fractions of a set of objects

Equivalent fractions

Compare fractions

Order fractions

Add fractions

Subtract fractions

Measurement National Curriculum Statements

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Measure the perimeter of simple 2-D shapes

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 I 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'clock, a.m./p.m., morning, afternoon, noon and 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 [for example to calculate the time taken by particular events or tasks].

Manageable Steps

Pounds and pence

Convert pounds and pence

Add money

Subtract money

Give change

Measure length

Equivalent lengths (m and cm)

Equivalent lengths (mm and cm)

Compare lengths

Add lengths

Subtract lengths

What is perimeter?

Measure perimeter

Calculate perimeter

Months and years

Hours in a day

Telling the time to 5 minutes

Telling the time to the minute

Using a.m. and p.m.

24-hour clock

Finding the duration

Comparing the duration

Start and end times

Measuring time in seconds

Problem solving with time

Measure mass

Compare mass

Add and subtract mass

Measure capacity

Compare capacity

Add and subtract capacity

Geometry – Properties of Shapes - National Curriculum Statements

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 a description of a turn

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Manageable Steps

Turns and angles

Right angles in shapes

Compare angles

Draw accurately

Horizontal and vertical

Parallel and perpendicular

Recognise and describe 2-D shapes

Recognise and describe 3-D shapes

Make 3-D shapes

Statistics National Curriculum Statements

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.

Manageable Steps

Bar Charts

Draw bar charts

Tables

Pictograms