



The Primary Mathematics 'Hokey Cokey'

What's *in*, what's *out* and what's *moved about* in the new mathematics National Curriculum for Primary Schools



Counting & writing numerals to 100
Write numbers in words up to 20
Number bonds to 20
Vocabulary including equal, more than, less than, fewer

Data handling/Statistics
Describing Patterns
Describing ways of solving problems or explaining choices

in

out



moved about

YEAR ONE



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Solving problems with subtraction

Finding / writing fractions of quantities (and lengths)

Adding two 2-digit numbers

Adding three 1-digit numbers

Demonstrating commutativity of addition & multiplication

Describing properties of shapes (e.g. edges, vertices)

Measuring temperature in °C

Tell time to nearest 5 minutes

Make comparisons using "<", ">" and "="

Recognise £ and p symbols

Solve simple money problems

Data handling/Statistics

Describing Patterns

Describing ways of solving problems or explaining choices

Rounding two-digit numbers to the nearest 10

Halving / doubling

Using lists / tables / diagrams to sort objects

YEAR TWO

Derive and recall all addition and subtraction facts for each number to at least 10, all pairs with totals to 20 and all pairs of multiples of 10 with totals up to 100
Moved to Year 1

Solve problems with addition
Moved to Year 1

Identify and record the number sentences involved in a problem
Moved to Year 1

in

out

moved about



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Adding tens or hundreds to 3-digit numbers

Formal written methods for addition / subtraction

8 times tables replaces 6 times tables

Counting in tenths

Comparing, ordering, adding & subtracting fractions

with common denominators

Identifying angles larger than/smaller than right angles

Identify horizontal, vertical, parallel and

perpendicular lines

Tell time to the nearest minute, including 24-hour

clock and using Roman numerals

Know the number of seconds in a minute and the number of days in each month, year and leap year

Specific detail of problem-solving strategies (although the requirement to solve problems remains)

Rounding to nearest 10 / 100

Reflective symmetry

Converting between metric units

Carroll / Venn diagrams

Use these to find a solution and present it in context, where appropriate using £.p notation or units of measure **Moved to Year 2**

Round two- or three-digit numbers to the nearest 10 or 100 and give estimates and approximations to their sums and differences **Moved to Year 4**

Derive and recall all addition and subtraction facts for each number to 20, sums and differences of multiples of 10 and number pairs that total 100 **Moved to Year 2**

2, 5 and 10 times-tables **Moved to Year 2**

Add or subtract mentally combinations of one-digit and two- digit numbers **Moved to Year 2**

Multiplying by 10 **Moved to Year 2**

Draw and complete shapes with reflective symmetry and draw the reflection of a shape in a mirror line along one side **Moved to Year 4**

continued overleaf

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YEAR THREE

Read and record the vocabulary of position, direction and movement, using the four compass directions to describe movement about a grid **Moved to Year 4**

Know the relationships between kilometres and metres, metres and centimetres, kilograms and grams, litres and millilitres **Moved to Year 4**

Choose and use appropriate units to estimate, measure, and record measurements **Moved to Year 2**

Reading to nearest whole unit **Moved to Year 2**

Read the time on a 12-hour digital clock and to the nearest five minutes on an analogue clock; calculate time intervals and find start or end times for a given time interval **Moved to Year 2**

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Solving problems with fractions and decimals to two decimal places

Rounding decimals to whole numbers

Roman numerals to 100

Recognising equivalent fractions

Knowing equivalent decimals to common fractions

Dividing by 10 and 100 (incl. with decimal answers)

Using factor pairs

Translation of shapes

Finding perimeter/area of compound shapes

Solve time conversion problems

Specific detail on lines of enquiry, representing problems and find strategies to solve problems and explaining methods

Using mixed numbers

Most ratio work

Written division methods

Measuring angles in degrees

Use knowledge of addition and subtraction facts and place value to derive sums and differences of pairs of multiples of 10, 100 or 1000 **Moved to Year 2**

Interpret mixed numbers and position them on a number line, e.g. $31\frac{1}{2}$ **Moved to Year 5**

Most ratio work **Moved to Year 6**

Add or subtract mentally pairs of two-digit whole numbers, e.g. $47 + 58$, $91 - 35$ **Moved to Year 2**

Find fractions of numbers, quantities or shapes, e.g. $\frac{1}{5}$ of 30 plums, $\frac{3}{8}$ of a 6 by 4 rectangle **Moved to Year 3**

Know that angles are measured in degrees and that one whole turn is 360° compare and order angles less than 180° **Moved to Year 5**

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YEAR FOUR



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Understand & use decimals to 3dp

Solve problems using up to 3dp, and fractions

Write %ages as fractions; fractions as decimals

Use vocabulary of primes, prime factors, composite numbers, etc.

Know prime numbers to 20

Understand square and cube numbers

Use standard multiplication & division methods for up to 4 digits

add and subtract fractions with the same denominator

multiply proper fractions and mixed numbers by whole numbers

deduce facts based on shape knowledge

distinguish regular and irregular polygons

calculate the mean average

Detail of problem-solving process and data handling cycle no longer required

Calculator skills

Probability

Decimals to 2dp **Moved in Year 4**

Express a smaller whole number as a fraction of a larger one; find equivalent fractions, including equivalent improper fractions and mixed numbers
Moved to Lower KS2

Table knowledge **Moved to Year 4** to 12x12

Find fractions using division, e.g. 1/100 of 5 kg, and percentages of numbers and quantities, e.g. 10%, 5% and 15% of £80
Moved to Lower KS2

Plotting points **Moved to Year 4**

Parallel & Perpendicular lines **Moved to Year 3**

Translation **Moved to Year 4**

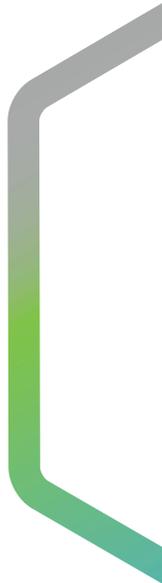
Symmetry introduced
Moved to Year 4

Probability **Moved to KS3**

in

out

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Compare and ordering fractions greater than 1

Long division

4 operations with fractions

Calculate decimal equivalent of fractions

Understand & use order of operations

Plot points in all 4 quadrants

Convert between miles and kilometres

Name radius / diameter and know relationship

Use formulae for area / volume of shapes

Calculate area of triangles & parallelograms

Calculate volume of 3-d shapes

Use letters to represent unknowns (algebra)

Generate and describe linear sequences

Find solutions to unknowns in problems

Detail of problem-solving processes no longer explicit

Divisibility tests

Calculator skills

Rotation

Probability

Median / Mode / Range no longer required

YEAR SIX

Use decimal notation for tenths, hundredths and thousandths, partition and order numbers with up to three decimal places, and position them on the number line **Moved to Year 5**

Express a larger whole number as a fraction of a smaller one; simplify fractions **Moved to lower KS2**

Use knowledge of multiplication facts to derive quickly squares of numbers to 12×12 **Moved to Lower KS2**

Recognise that prime numbers have only two factors and identify prime numbers less than 100; find the prime factors of two-digit whole numbers **Moved to Year 5**

Find fractions and percentages of whole-number quantities, e.g. $\frac{5}{8}$ of 96, 65% of £260 **Moved to lower KS2**

Use coordinates in the first quadrant to draw and locate shapes **Moved to Year 4**

Measure and calculate using imperials units still in everyday use; know their approximate equivalent metric values **Moved to Year 4 / 5**

in

out

moved about