

Cheadle Heath Primary School

Key Changes to the 2014 Primary National Curriculum for Mathematics

Introduction

A new Primary National Curriculum for England and Wales was introduced in September 2014, some aspects of maths have moved from one year group to another, some are new and some have been removed.

The new curriculum is more demanding than the previous and children are expected to be taught, and learn, more than before. The new curriculum is statutory for children in years 1, 3, 4 and 5 in September 2014 and will be for all children in September 2015. This is because children in Y2 and Y6 will sit SATs based on the old curriculum. However, we intend to teach children the more demanding aspects of the new curriculum this year.

One key change is the reintroduction of efficient written methods such as vertical addition and subtraction and long division. Children should be able to calculate quickly and accurately.

This document should be read in conjunction with the end of year expectations on our school website and the parent leaflets which outline the new expectations in reading, writing and maths.

All the objectives from the new curriculum will be worked on throughout the year and will be the focus of direct teaching. Any extra support you can provide in helping your children to achieve these is greatly valued.

If you have any queries regarding the content of this booklet or want support in knowing how best to help your child please talk to your child's teacher.

Headline Changes to the new Primary Curriculum for maths:

- Multiplication facts now to be learnt up to 12×12
- A single formal written method to be taught for addition, subtraction, multiplication, division
- Calculation of fractions included
- Calculation of the area of shapes other than squares and rectangles included
- Probability has been removed from KS2, now starting in KS3
- Emphasis on essential numeracy skills and arithmetic, including using money and telling the time
- Calculators to be limited in use until the later years of primary

Specific changes from the old maths programmes of study

YEAR 1 Changed content	How it is different?
count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	Previously Year 2
count in multiples of twos, fives and tens	Previously Year 2
represent and use number bonds and related subtraction facts within 20	Previously Year 2
compare, describe and solve practical problems for capacity/volume measure and begin to record the following: capacity and volume	New content
describe position, directions and movements, including ... three-quarter turns	Previously Year 2
YEAR 2 Changed content	How it is different?
count in steps of ... 3 ... from any number, forward or backward	Previously Year 3
recognise, find, name and write fractions $\frac{1}{3}$... of a length, shape, set of objects or quantity	Previously Year 3
choose and use appropriate standard units to estimate and measure ... temperature ($^{\circ}\text{C}$)...to the nearest appropriate unit, using ... thermometers	Previously Year 3
compare and order ... volume/capacity and record the results using $>$, $<$ and $=$	Previously Year 3
tell and write the time to five minutes	Previously Year 3
YEAR 3 Changed content	How it is different?
count from 0 in multiples of 4, 8, 50 and 100	Previously Year 4
add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction	Previously Year 4
recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Previously Year 4
write and calculate mathematical statements for multiplication and division ... progressing to formal written methods	Previously Year 4
solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects	New content
add and subtract fractions with the same denominator within one whole	New content
measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Previously Year 4
measure the perimeter of simple 2-D shapes	Previously Year 4
tell and write the time... using Roman numerals from I to XII...	New content
tell and write the time from an analogue clock, including using 24-hour clocks	Previously Year 5
estimate and read time with increasing accuracy to the nearest minute... use vocabulary such as a.m./p.m...	Previously Year 4
identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Previously Year 4 & Year 5

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YEAR 4 Changed content	How it is different?
count backwards through zero to include negative numbers	Previously Year 5
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	New content
recall multiplication and division facts for multiplication tables up to 12x12	New content
use place value, known and derived facts to multiply and divide mentally, including... multiplying together three numbers	New content
multiply two-digit and three-digit numbers by a one-digit number using formal written layout	Previously Year 5
multiply two-digit and three-digit numbers by a one-digit number using formal written layout	New content
add and subtract fractions with the same denominator	New content
round decimals with one decimal place to the nearest whole number	Previously Year 5
read, write and convert time between analogue and digital 12 and 24-hour clocks	Previously Year 5
describe positions on a 2-D grid as coordinates in the first quadrant	Previously Year 5
describe movements between positions as translations of a given unit to the left/right and up/down	Previously Year 5
plot specified points and draw sides to complete a given polygon	Previously Year 6
YEAR 5 Changed content	How it is different?
read Roman numerals to 1000 (M) and recognise years written in Roman numerals	New content
know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Previously Year 6
establish whether a number up to 100 is prime and recall prime numbers up to 19	Previously Year 6
multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	Previously Year 6
divide numbers up to 4 digits by a one-digit number using the formal written method of short division...	New content
recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	New content
compare and order fractions whose denominators are all multiples of the same number	Previously Year 6
add and subtract fractions with the same denominator and multiples of the same number	New content
multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	New content
recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Previously Year 6
read, write, order and compare numbers with up to three decimal places	Previously Year 6
solve problems involving number up to three decimal places	Previously Year 6
understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	Previously Year 6
... estimate the area of irregular shapes	Previously Year 6
estimate volume and capacity	New content
estimate and compare acute, obtuse and reflex angles	Previously Year 6
identify angles at a point and one whole turn (total 360°)	Previously Year 6

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YEAR 6 Changed content	How it is different?
read, write, order and compare numbers up to 10 000 000 and determine the value of each digit	New content
multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	New content
divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division	New content
add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	New content
multiply simple pairs of proper fractions, writing the answer in its simplest form	New content
divide proper fractions by whole numbers	New content
use, read, write and convert between standard units, converting measurements of ... volume... from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places	New content
recognise when it is possible to use formulae for area and volume of shapes	New content
calculate the area of parallelograms and triangles	New content
find unknown angles in any triangles, quadrilaterals, and regular polygons	New content
illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	New content
... construct pie charts	New content