

Y5 Maths: Place value, estimation & rounding

P1

read, write, order and compare **digit values** to at least 1,000,000



P2

count in steps of **powers of 10**, up or down, from *any* number up to 1,000,000



P3

use **negative numbers** in context, count forwards and backwards across 0



P4

round **any number** up to 1,000,000 to the nearest power of 10



P5

solve number and practical problems that involve Y5 place value knowledge



P6

read **Roman numerals** to 1,000 (M); recognise years in this format



Y5 Maths: Addition & subtraction

AS1

use **columns** and other methods to add and subtract numbers of 5-digits or more



AS2

mental maths: add and subtract increasingly large numbers



AS3

use **rounding** to check answers and assess accuracy



AS4

decide how to solve multi-step addition and subtraction problems; explain choices



MD1	identify factor pairs and common factors of 2 numbers; relate this to multiples
MD2	apply vocabulary : prime numbers, prime factors, composite (non-prime) numbers
MD3	recall prime numbers up to 19; establish whether a number - up to 100 - is prime
MD4	use written methods , including long multiplication, to multiply 4-digits by 2-digits
MD5	mental maths : multiply and divide numbers drawing upon known facts
MD6	use short division to divide a 4-digit number by a unit; resolve remainders by rounding or interpret them as fractions
MD7	multiply and divide whole and decimal numbers by 10, 100 and 1000
MD8	recognise and use square and cube numbers; use notation for squared (2) and cubed (3)
MD9	solve problems that combine $+$ $-$ \times \div and use $=$ to show equivalence
MD10	solve problems involving multiplication, division, factors, multiples, squares and cubes
MD11	solve problems that involve scaling with fractions and simple rates

F1

order fractions where the denominators are multiples of the same number



F2

using pictures, identify and write **equivalent** fractions; include tenths and hundredths

F3

convert between improper and mixed fractions; write mixed number statements



F4

add and subtract fractions where the denominators share a common factor



F5

multiply **proper fractions** and **mixed numbers** by whole numbers

F6

read and write **decimals as fractions** e.g. $0.71 = \frac{71}{100}$ 

F7

relate **thousandths** to tenths, hundredths and decimal equivalents

F8

round **decimals** with two decimal places to the nearest tenth or whole number

F9

order and compare numbers with up to three decimal places



F10

solve problems involving numbers with up to three decimal places



F11

recognise the **percent** symbol; convert % to decimals and fractions with denominator 100

F12

solve problems with % and decimal **equivalents** of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$ and fractions with a denominator in the 10 or 25 times table

M1

convert between different units of metric *e.g. km - m; m - cm; cm - mm; kg - g; l - ml*

M2

understand simple rules for converting between **metric** and **imperial** units, *e.g. pints, pounds, inches*

M3

calculate **perimeter** of composite (joined together) rectilinear (straight-edged) shapes

M4

calculate **area** of rectangles; estimate area of irregular shapes; use symbol for squared (²)

M5

estimate **volume** using 1 cm³ blocks to build cuboids and **capacity** using water

M6

solve problems involving **converting** between units of time

M7

solve $+$ $-$ \times \div problems about units of measure involving decimals, converting and scaling *e.g. 1 film lasts 1.5 hrs, how many mins in 3 films?*

S1

using information on a **line graph**, solve comparison, sum and difference problems

S2

interpret **information** in tables, including timetables; fill in missing data

G1

identify 3D shapes, including cubes and cuboids, from 2-D images



G2

estimate acute, obtuse and reflex angles; know these are measured in degrees



G3

draw given angles and measure in degrees ($^{\circ}$)

G4

identify one whole turn: total 360° 

G5

Identify angles on a straight line or a half turn: total 180° 

G6

Identify a quarter turn - total 90° - and multiples of this

G7

use knowledge about rectangles and their properties to find missing angles or lengths



G8

using geometry facts, find differences between regular and irregular polygons



G9

using maths vocab., describe a shape's position after reflection or translation; represent these movements on a grid



