

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



