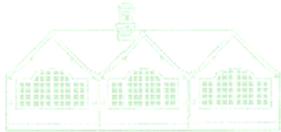


MATHEMATICS ASSESSMENT RECORD

YEAR 4

Number and Place Value	Introduction	Independence	Application	Mastery	Surpassing
Count in multiples of 6, 7, 9, 25 and 1,000					
Find 1,000 more or less than a given number					
Count backwards through 0 to include negative numbers					
Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)					
Order and compare numbers beyond 1,000					
Identify, represent and estimate numbers using different representations					
Round any number to the nearest 10, 100 or 1,000					
Solve number and practical problems that involve all of the above and with increasingly large positive number					
Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value					
Addition and Subtraction					
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate					
Estimate and use inverse operations to check answers to a calculation					
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why					
Multiplication and Division					
recall multiplication and division facts for multiplication tables up to 12×12					
use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers					
recognise and use factor pairs and commutativity in mental calculations					
multiply two-digit and three-digit numbers by a one-digit number using formal written layout					
solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects					
Fractions					
Recognise and show, using diagrams, families of common equivalent fractions					
Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10					
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number					
Add and subtract fractions with the same denominator					
Recognise and write decimal equivalents of any number of tenths or hundreds					
Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$					
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths					
Round decimals with 1 decimal place to the nearest whole number					
Compare numbers with the same number of decimal places up to 2 decimal places					
Solve simple measure and money problems involving fractions and decimals to 2 decimal places					
Measurement					
Convert between different units of measure [for example, kilometre to metre; hour to minute]					
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres					
Find the area of rectilinear shapes by counting squares					

Estimate, compare and calculate different measures, including money in pounds and pence							
Read, write and convert time between analogue and digital 12- and 24-hour clocks							
Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days							
Properties of Shape							
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes							
Identify acute and obtuse angles and compare and order angles up to 2 right angles by size							
Identify lines of symmetry in 2-D shapes presented in different orientations							
Complete a simple symmetric figure with respect to a specific line of symmetry							
Position and Direction							
Describe positions on a 2-D grid as coordinates in the first quadrant							
Describe movements between positions as translations of a given unit to the left/right and up/down							
Plot specified points and draw sides to complete a given polygon							
Statistics							
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs							
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs							



Godalming Junior School