COTTINGLEY VILLAGE PRIMARY SCHOOL *Together we'll succeed*

Year Four Maths Expectations October 2022

Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measures	Geometry	Statistics
Count in multiples of 6, 7, 9, 25 & 1,000	Continue to develop mental methods for addition & subtraction including partitioning to bridge, rounding and adjusting	Recall multiplication and division facts for multiplication tables up to 12 × 12.	Recognise & show using diagrams, families of common equivalent frac mixed & improper f	Convert between units of measure eg. g/kg hrs/mins & km/m l/mls	Compare % classify triangles isosceles, scalene & equilateral triangle according to properties	Use a range of scales to interpret & present continuous & discrete data using appropriate graphical methods including bar charts & line graphs to represent time
Find 1,000 more or less than a given number		Use place value, known and derived facts to multiply and divide mentally, including: multiplying three numbers & applying the associative law 2 x(3 x 4) = (2 x 3) x 4 Known facts eg. 2 x 3 = 6 = 60 divide by 2 = 30 Use the distributive law – 29 x 5 = 20 x 5 + 9 x 5 Or 5 x 6 = 4 x 6 + 6	Count up and down in different fractions & hundredths & recognise hundredths arise when dividing an object by 100 and tenths arise when dividing an object by 10	Measure & calc the perimeter of rectangles (inc sq) in cm & m and express perimeter as 2(a + B)	Compare & classify quadrilaterals – rhombus, parallelogram trapezium	
Count backwards through zero to include negative numbers.					Identify, compare & order acute, obtuse & right angles & apply to classify regular/irregular polygons	Solve comparison, sum & difference problems using information presented in bar charts, line graphs, pictograms and tables
Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones).	Add and subtract up to four digit numbers using formal column methods where appropriate		Reason to solve problems finding fractions of quantities including non unit fractions where the answer is a whole number	Find the area of rectilinear shapes by counting squares & relate to arrays from multiplication	Draw symmetrical patterns & identify lines of symmetry in 2d shapes including different orientations	
Represent four digit numbers, including placing on marked or unmarked number lines & scales to represent measures	Apply rounding skills to estimate answers to check for accuracy					
Partition four digit numbers in different ways – including reasoning to find missing numbers	Apply inverse operations to find missing numbers and check for accuracy	Recognise and use factor pairs & commutativity in mental calculations	Reason to solve money, measure & fraction problems in context to two decimal places	Estimate, compare & calculate (inc conversions) of different measures inc money, pounds & pence	Complete a simple symmetric figure in relation to specific line or symmetry	
Order and compare numbers beyond 1,000	Use bar models to interpret problems for addition & subtraction – linked to structures	Multiply and divide two and three digit numbers using formal methods inc division with remainders	Add & subtract fractions with the same denominator inc mixed nos & improper fractions	Read and convert analogue & digital times 12 & 24 clocks	Describe position of shapes in first quadrant	
Round any number to the nearest 10, 100 or 1,000					Translate shapes in the first quadrant up/down or left/right according to a specified number of moves	
Reason to solve number or practical problems including: *Odd one out, True/False,Agree/Disagree, Justify or prove a conjecture or statement, generalise rules, working systematically and finding all solutions*	Reason to solve two step addition and subtraction problems – including context of mixed measures, deciding which operations or methos to use and why?	Reason to solve multiplication and division problems in context: Using bar models to understand & represent problems. Scaling to solve problems. Division in context by rounding up or rounding down the answer 3 times as long twice as long	Recognise decimal & fraction equivalents of tenths & hundredths	Reason to solve a range of problems including Calculating the length of time of an event, Converting from hours to minutes & vice versa Converting from minutes to seconds & vice versa Converting from days to weeks & vice versa Converting from years to weeks		
			Recognise & write decimal & fraction equivalents of ½ ¼ 3/4 inc on number lines		Describe number of moves lef/right or up/down of a translated shape	
	Reason to solve addition & subtraction problems by explaining mistakes		Multi & divide 1 or 2 digit numbers by 10 or 100 identifying the value of digits in answers as ones, tenths or hundredths		Reason to sort & classify shapes according to their properties using venn & carroll diagrams	
Reason to find missing numbers and complete or continue number sequences	Reason to interpret tables to solve addition & subtraction problems	Reason to solve problems in context eg. The perimeter or a regular hexagon or	Round decimals with one place – nearest wh number	Read & interpret simple timetables		
			Compare & order decimals with two places			