

Highwoods Primary School Mathematics Curriculum Overview.

Year group	Number and Place value	Calculation	Fractions	Measurement	Geometry	Statistics
Found-ation Stage	Count and order numbers to 20. Say which number is one more or less than a given number	Use quantities and objects to add and subtract single digit numbers. Count on and back to find out the answer.	Solve problems including doubling, halving and sharing.	Use everyday language to describe size, weight, capacity, position, distance, time and money to compare quantities and solve problems.	Explore characteristics of everyday objects and shapes and use mathematical vocabulary to describe them.	
Year 1	Count, read and write numbers to 100. Count in 2's, 5' s and 10's Write the numbers from 1-20 in words.	Know number bonds and related subtraction facts of 10 and 20. Add and subtract one-digit and two-digit numbers to 20, including zero	Recognise and find $\frac{1}{2}$ and $\frac{1}{4}$ of a shape or group of objects	Use non standard units to measure : lengths and heights mass/weight capacity and volume time (hours, minutes, seconds). Tell the time using o'clock and $\frac{1}{2}$ past.	Recognise and name 2-D shapes [e.g. rectangles (including squares), circles and triangles] 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]. $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ turns.	Sort and group objects
Year 2	Compare and order numbers to 100 in numerals and words. Count in 3's Use < > signs Understand the place value of 2 digit numbers	Recall number facts to 20 fluently, and use related facts up to 100. Add and subtract two, 2 digit numbers. Know the 2,5 and 10x tables and related division facts.	Recognise and find $\frac{1}{3}$, $\frac{2}{4}$, $\frac{3}{4}$ of a shape or group of objects. Recognise the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$.	Measure using cm, m, ml, l, g, kg, degrees C. Tell the time to 5 minute intervals, including quarter past and quarter to. Make amounts with money.	2d shapes including pentagon, hexagon and octagon 3d shapes including cylinders, prisms, cones. Clockwise and anticlockwise turns Symmetrical shapes	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Year 3	Count, read and write numbers to 1000 in numerals and words. Count in 4's, 8's 50's 100's Understand the place value of 3 digit numbers. Compare and order numbers to 1000.	Add and subtract numbers up to 3 digits using the column method. Know the 3,4 and 8x tables and related division facts Multiply and divide 2 digit numbers by 1 digit numbers.	Recognise unit ($\frac{1}{5}$) and non-unit ($\frac{3}{5}$) fractions with small denominators i.e. to eighths. Recognise equivalent fractions. Add fractions with the same denominator eg $\frac{3}{5} + \frac{2}{5}$	Tell the time to the nearest minute on an analogue clock. Begin to use the 24 hour clock. Measure in mm. Measure the perimeter of shapes. Add and subtract amounts of money to give change.	Draw 2d shapes and construct 3d shapes. Recognise angles in 2d shapes. Identify right angles and their relationships to turns. Horizontal, vertical, parallel and perpendicular lines.	Interpret and present data using bar charts, pictograms and tables.
Year 4	Order and compare numbers beyond 1000 Negative numbers	Add and subtract 4 digit numbers using the column method.	Compare numbers with up to 2 decimal places.	Measure area by counting squares.	Identify lines of symmetry	Interpret and present discrete and continuous data using appropriate graphical

	Count in multiples of 6, 7, 9, 25 and 1 000. Read Roman numerals to 100. Round numbers to nearest 10,100, 1000.	Solve 2 step problems. Times table facts to 12x12 and their related division facts. Multiply and divide 3 digit numbers by a 1 digit number using standard method.	Add and subtract fractions with the same denominator. Know decimal equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$. Explore multiplying and dividing numbers by 10 and 100. Know common equivalent fractions.	Calculate the perimeter of shapes. Convert between analogue and digital clocks. Convert different units of measurement eg m/km, g/kg, mm/cm.	Classify different quadrilaterals and triangles. Identify acute and obtuse angles. Use co-ordinates in the first quadrant. Identify lines of symmetry in 2d shapes. Translation of shapes (left, right, up, down).	methods, including bar charts and time graphs.
Year 5	Read, write, order and compare numbers to at least 1 000 000. Count forwards and backwards with positive and negative whole numbers, including through zero. Round numbers to nearest 10,000 or 100,000. Read Roman numerals to 1000.	Add and subtract whole numbers with more than 4 digits. Solve multistep problems Multiply 4 digit numbers by a one- or two-digit number Divide numbers up to 4 digits by a one-digit number using the short written method. Prime numbers, factors, prime factors, square numbers and cube numbers.	Work with numbers up to 3 decimal places. Write decimal numbers as fractions eg $25/100 = 0.25$ Recognise mixed numbers and improper fractions. Multiply proper fractions and mixed numbers by whole numbers. Recognise % and the most common fraction equivalents.	Calculate the area of squares and rectangles. Estimate volume . Measure and calculate the perimeter of composite shapes. Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints.	Draw angles and measure them in degrees. Identify regular and irregular polygons. Identify, describe and represent the position of a shape following a reflection or translation.	Complete, read and interpret information in tables, including timetables, Solve comparison, sum and difference problems using information presented in a line graph.
Year 6	Read, write, order and compare numbers up to 10 000 000	Use knowledge of the order of operations to carry out calculations involving the four operations. Multiply multi-digit numbers up to 4 digits by a two-digit whole number Divide numbers up to 4-digits by a two-digit whole number	Simplify fractions. Calculate the decimal equivalent of a fraction. Add and subtract fractions with different denominators Equivalences between different fractions, decimal numbers and %	Calculate the area of triangles and parallelograms. Use a formula to calculate the area and volume of shapes. Convert between miles and km. Explore the relationship of perimeter between shapes with the same area.	Work with co-ordinates in all 4 quadrants. Recognise and name the radius, diameter and circumference of circles. Find unknown angles in any triangles, quadrilaterals, and regular polygons.	52
	Algebra Express missing number problems algebraically. Find pairs of numbers that satisfy number sentences involving two unknowns. Generate and describe linear number sequences.					Ratio and Proportion. Solve problems involving: <ul style="list-style-type: none"> • Unequal sharing and grouping • Scaling • The calculation of %'s • Relative sizes of 2 quantities.

