



Maths Skills Development

	Place Value	Four operations	FDP & Ratio & proportion	Manipulation & solving	Graphical	Properties of shape	Position & Angles	Measure	Collect, interpret & present	Statistical analysis	Probability
Purpose	Ambitious & capable learners ready to learn throughout their lives Enterprising, creative contributors, ready to play a full part in life and work Healthy, confident individuals, ready to lead fulfilling lives as valued members of society			Enterprising, creative contributors, ready to play a full part in life and work		Ambitious & capable learners ready to learn throughout their lives Enterprising, creative contributors, ready to play a full part in life and work			Ambitious & capable learners ready to learn throughout their lives Ethically informed citizens of Wales and the world		
What Matters Statement:	The number system is used to represent and compare relationships between numbers and quantities.			Algebra uses symbol systems to express the structure of mathematical relationships.		Geometry focuses on relationships involving shape, space and position, and measurement focuses on quantifying phenomena in the physical world.			Statistics represent data, probability models chance, and both support informed inferences and decisions.		
Nursery	Explores counting in meaningful contexts to 3–5; begins to compare quantities using more/less; groups objects in play.	Explore adding and subtracting through practical play; combines and separates small groups of objects; uses language such as “more”, “add”, “take away” in context.	Explore sharing and splitting objects in play; begin to notice “half” in practical contexts.	Explore patterns in play; sort and match objects; solve simple practical problems with objects.	Explore pictures, marks and simple representations in play; sort objects into groups; talk about what they notice.	Explore and sort shapes in the environment; talk about simple properties informally.	Explore position and movement using everyday language (e.g. in, on, under, behind, next to).	Compare size, length, height, mass and capacity using everyday language; explore time in daily routines.	Sort and group objects; talk about what they notice.	Talk about what they notice in simple data; sort objects and discuss differences.	Talk about chance in play (e.g. will it happen / won't it happen).
Reception	Count reliably to 10 and beyond; subitises to 5; compares quantities; begins to group objects into equal sets (e.g. 2s, 5s) using practical resources.	Begin to understand addition and subtraction through practical activities; combines and separates quantities within 10; uses objects and visual representations to solve simple problems.	Share and split objects into equal groups; explore halves in practical contexts; begin to recognise simple fair sharing.	Recognise, copy and continue simple patterns; solve practical problems using objects; explain what is happening using simple language.	Represent data using objects, pictures and simple charts; sort and compare quantities; recognise simple patterns in data.	Recognise, name and describe basic 2D shapes; compare shapes using informal language.	Describe position, direction and movement; follow and give simple positional instructions.	Compare and order length, height, mass and capacity; use non-standard units to measure; talk about time in daily routines. (Days, weeks/ months/ oclock	Sort, group and compare objects; represent information using objects and pictures.	Compare quantities; talk about what is more/less; notice simple patterns in data.	Use everyday language of chance (possible, impossible, certain).
Year 1	Counts, orders and compares numbers within 100; counts in 10s; begins to understand place value in tens and ones using practical resources.	Uses mathematical language (more, less, total, take away) to solve practical problems; develops fluency with number bonds to 10 and related facts within 20; counts in 2s, 5s and 10s; explores grouping and sharing through practical activities.	Recognise and find halves and quarters of shapes and quantities.	Recognise, copy and continue patterns; solve simple addition and subtraction problems using objects and pictures; explain thinking using mathematical language	Create simple pictograms and block graphs; interpret simple data; sort and group objects.	Recognise, sort and name 2D shapes.	Describe position, direction and turns, including whole, half and quarter turns.	Compare lengths, heights, mass and capacity; measure in CM; recognise coins; use time language (before, after); name days and months; tell the time to the hour and half past. (Analogue)	Collect and sort data; create simple pictograms and block graphs; answer simple questions about data.	Answer simple questions about data; describe what they see in pictograms and charts.	Describe events using simple language (likely, unlikely, certain, impossible).
Year 2	Understands place value within 100; reads and writes numbers in words and digits; uses place value charts to represent tens and ones; partitions numbers in multiple ways to 100.	Uses mathematical language (more, less, total, take away) to solve practical problems; develops fluency with number bonds to 10 and related addition and subtraction facts within 20; counts in 2s, 5s and 10s; explores grouping and sharing through practical activities.	Recognise and find $\frac{1}{2}$ and $\frac{1}{3}$, find simple fractions of shapes and quantities. Begin to understand unit and non- unit fractions.	Recognise, describe and continue patterns; solve problems using addition, subtraction, multiplication and division; use known facts to support reasoning.	Create and interpret pictograms, tally charts and simple block graphs; ask and answer questions about data.	Count sides, edges and vertices on 2D and 3D shapes; identify and draw vertical lines of symmetry.	Describe position, movement and turns; use clockwise and anti-clockwise; follow and give directions.	Count, compare and calculate with money £ & p Measure, order compare & calculate in cm, m, g kg, ml, l Time to 15 mins (Analogue)	Sort data into tables and tally charts; draw and interpret pictograms.	Ask and answer questions about data; compare simple datasets using pictograms and tally charts.	Compare likelihood of events and sort outcomes (more likely, less likely).
Year 3	Understands place value within 1000; represents, partitions and compares numbers using hundreds, tens and ones; orders numbers flexibly using a range of representations.	Add and subtract within 100 using column method with exchange; subtract 2-digit from 3-digit numbers; multiply and divide using facts for 2, 3, 4, 5, 8 and 10; solve multiplication and division problems with 2-digit and 1-digit numbers.	Recognise, compare and order unit and non-unit fractions; understand equivalence of simple fractions; use number lines and bar models; add and subtract fractions with the same denominator; find fractions of quantities.	Identify and extend patterns and rules; solve multi-step problems using all four operations; use known facts and strategies to explain reasoning and check answers.	Collect, represent and interpret data using bar charts, pictograms and tables; compare and answer questions about data sets.	Recognise and describe 2D and 3D shapes Vocab – Horizontal, vertical, Parallel, perpendicular	Recognise, compare and describe turns and angles; identify right angles.	Measure and compare in cm & mm, g & kg, ml & l Measure perimeter Add, subtract Money and find change — convert £ and p Tell the time to 5 minutes.	Collect data; draw and interpret pictograms and bar charts.	Describe and compare data; answer questions using bar charts and pictograms; begin to explain findings.	Describe and compare probability of simple events; begin to explain reasoning.



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Year 4	Understand and apply place value within 10,000; represents orders and compares numbers using a range of representations; rounds numbers to the nearest 10, 100 and 1000.	Add and subtract numbers up to 4 digits with more than one exchange; multiply and divide using facts for 3, 6, 9 and 11; multiply and divide by 10 and 100 and use related facts; multiply 3-digit by 1-digit numbers.	Understand fractions greater than 1; convert between mixed and improper fractions; add and subtract mixed numbers and fractions with the same denominator; understand tenths and hundredths; recognise equivalence between fractions, decimals and percentages; partition, order and compare decimals.	Identify, describe and generalise patterns; solve multi-step problems involving all four operations; explain and justify reasoning using representations.	Plot and use coordinates in the first quadrant; interpret and construct bar charts and tables; solve comparison and sum problems using data.	Describe properties of triangles, quadrilaterals and polygons; identify and draw all lines of symmetry; complete symmetrical shapes.	Identify, compare and classify angles; translate shapes on a grid.	Find and compare areas by counting Equivalent measures m to km Perimeter of polygons (regular and irregular) Estimate and solve problems involving money Convert between analogue, digital, to the minute	Draw and interpret charts and line graphs	Compare data sets; solve problems using charts and graphs; describe patterns and relationships in data.	Use probability language to describe and compare events; order likelihood of outcomes.
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Year 5	Understand and apply place value for numbers up to 1,000,000; reads, writes and represents numbers including decimals to one decimal place; compares, orders and positions numbers on a number line; rounds numbers to the nearest 1,000 and to one decimal place; understands and compares negative numbers in context.	Solve multi-step addition and subtraction problems; use inverse operations to check answers; use rounding to check reasonableness; identify multiples and factors; recognise prime, square and cube numbers; multiply and divide by 1,000; multiply up to 4-digit by 2-digit numbers; divide using short division with remainders.	Recognise equivalent fractions; compare and order fractions less than and greater than 1; add and subtract fractions with the same denominator (including answers greater than 1); subtract from mixed numbers, including exchanging; add and subtract fractions with different denominators; multiply fractions; use fractions as operators; find the whole given a fraction; understand percentages; convert between percentages, decimals and fractions; solve problems using common percentage equivalents.	Identify and describe patterns and relationships; solve multi-step problems using all four operations; use inverse operations and estimation to check solutions; explain reasoning clearly.	Solve problems using coordinates in the first quadrant; interpret and draw line graphs; use timetables and real-life data; solve comparison, sum and difference problems.	Describe properties of 2D and 3D shapes; translate and reflect shapes on an axis (touching the axis).	Estimate, measure and draw angles up to 180°; use angle facts (around a point, on a straight line and within polygons).	Area & Perimeter of rectilinear shapes (incl. Compound) Estimating area or irregular shapes Convert & estimate metric and imperial Convert units of time Calculations with time and timetables (Calculating and converting 12-14 hours) Understand, estimate & compare volume using cubic cm.	Read and interpret two-way tables and timetables.	Interpret and compare multiple data sets; use two-way tables and timetables to draw conclusions; begin to identify trends.	Use probability to predict outcomes and explain reasoning using evidence; represent probability using simple fractions.
Year 6	Understand and apply place value for numbers up to and beyond 1,000,000, including decimals; uses powers of 10 to explain and manipulate number size; compares, orders and represents numbers (including negative numbers) in a range of contexts; rounds numbers to an appropriate degree of accuracy, including whole numbers and decimals.	Understand and use types of number including primes; use divisibility tests and known facts; multiply and divide integers and decimals; use order of operations (BIDMAS) to solve calculations.	Add, subtract, multiply and divide fractions; use and order fractions, decimals and percentages; find fractions and percentages of amounts; understand the relationship between ratio and fractions; solve ratio and proportion problems.	Explore 1- and 2-step function machines; form and simplify algebraic expressions; substitute values into expressions; solve 1- and 2-step equations using bar models and other representations; understand equality and equivalence.	Plot and use coordinates in all four quadrants; solve problems using coordinates; translate and reflect shapes on a coordinate grid.	Apply and consolidate Year 5 learning through increasingly complex reasoning, investigations and problem-solving.	Measure, classify and calculate angles up to 180°; calculate angles in polygons; use circle vocabulary; recognise nets of 3D shapes; translate and reflect shapes on an axis.	Convert and use metric and imperial measures Area of triangles & parallelograms Volume of cuboids	Draw and interpret line graphs, dual bar charts.	Understand and use the mean as an average; interpret, compare and draw conclusions from data; identify trends and justify findings.	Describe, compare and calculate probability; express probability as fractions, decimals and percentages; solve problems involving chance and likelihood.



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