



Progression of Skills, Understanding and knowledge in Maths

English	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	
		Stage 1		Stage 2		Stage 3		Stage 4		Stage 5
Number		<p>Counts to determine number of objects in a set</p> <p>Understands the last number counted is the quantity</p> <p>Recognises groups of 5 up to 5 without counting</p> <p>Sequencing first/then</p> <p>Use the language of equal to, more than, less than, most, least \leq</p> <p>Understands numbers can be constructed in multiple ways</p> <p>Can count to and across 100, forwards and backwards, beginning with 1 or 0, or from any given number and can count, read and write numbers to 100 in numerals</p> <p>Can read/write and interpret mathematical statements involving addition, subtraction and equals.</p> <p>Can count in multiples of 2, 5, 10 (maybe 3)</p>	<p>Calculate mathematical statements for multiplication and division</p> <p>Compare and order numbers from 1-100 and 1000, use \leq</p> <p>Use whole numbers up to 100 or beyond in real life situations</p> <p>Can count in multiples of 2, 3, 4, 5, 10</p> <p>Read and write whole numbers up to 1000</p> <p>Use all language associated with + and -.</p> <p>Model numbers to hundreds or beyond using the base 10 place system</p> <p>Recognise the place value of each digit in a 3 digit number</p> <p>Read/write/compare and use ordinal and cardinal numbers</p> <p>Use ordinal/cardinal numbers in real life situations using fast recall of addition and subtraction facts in real life situations</p> <p>Patterns and sequencing</p> <p>Compare and order numbers to 100 using \leq</p>	<p>Recognise and work with 4-digit numbers in real life situations</p> <p>Use whole numbers up to 1000 and beyond in real life situations</p> <p>Read, write and compare and order whole numbers to 1000</p> <p>Count backwards through 0 introducing negative numbers</p> <p>Can use and know all tables</p> <p>Factor pairs</p> <p>Recognise and use factor pairs</p> <p>Identify multiple and factors including finding all factor pairs and common factors of 2 numbers</p> <p>Round to the nearest 10, 100, 1000</p> <p>Rounding decimals to the nearest 1</p> <p>Read and understand roman numerals to 100</p>	<p>Read, write, compare and use (+, -) 1,000, 000</p> <p>Round and whole number to nearest 10, 100, 1000, 10,000, 100,000</p> <p>Rounding to 2dp working with 3dp</p> <p>Use negative numbers as integers and calculate across 0</p> <p>Formal methods for division</p> <p>Identify common factors, factor pairs, multiples, common multiples and prime numbers</p> <p>Use common factors/multiples factor pairs and prime numbers</p> <p>Square and cubed numbers and roots</p> <p>Express numbers missing in algebra</p> <p>Use simple algebraic expressions, formulate them, generate and describe linear number sequences</p> <p>Find pairs of numbers that satisfy an equation with 2 unknowns stating possibilities of different combinations</p> <p>Understand Roman numerals to 1000</p>	<p>Round off numbers accurately to estimate</p> <p>Rounding to dp and sig fig</p> <p>Use approximation through rounding to estimate answers and calculate possible resulting errors expressed through inequality</p> <p>Use a calculator to calculate results accurately and interpret them</p> <p>Order positive and negative numbers, fractions and decimals and use \leq</p> <p>Use the vocabulary of number work</p> <p>Highest common factor, lowest common multiple, prime factors</p> <p>Understand integers and roots</p> <p>Use conventional notation for the priority of operations for brackets, powers, root, reciprocals.</p> <p>Understand standard form</p> <p>Interpret and compare numbers in standard form</p> <p>Use, simplify and interpret algebraic notation</p> <p>Basic algebra notation and substitution</p> <p>Algebra in linear equations and find the nth term</p> <p>Using algebra for substitution and change the subject</p> <p>Creating formulae and expressions</p> <p>Collecting like terms and multiply out single brackets</p> <p>Generate terms of a sequence</p>				





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Fractions, decimals and percentages		<p>Use simple fraction names in real life situations Understand, recognise and use $\frac{1}{2}$ and $\frac{1}{4}$</p>	<p>Can find, recognise and write $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of length, shape, set of objects or quantity Compare and order fractions Use fractions in real life situations Model addition and subtraction of fractions with the same denominator Recognise that $\frac{1}{10^{\text{th}}}$ is an object divided into 10 equal parts Recognise and show on diagrams equivalent fractions with small denominators Solving simple fractions of a value eg $\frac{1}{2}$ of 6</p>	<p>Use language of fractions eg numerator/denominator Read, write, compare and order fractions to 100ths and beyond Recognise and understand common equivalent fractions Read/write, compare and order fractions and equivalent fractions Understand and use $\frac{1}{10^{\text{th}}}$ Add and subtract/multiply and divide fractions with the same and related denominator Solve problems involving increasingly harder fractions to calculate quantity Multiply proper fractions and mixed numbers by whole numbers Model decimal fractions to 100ths and beyond Use decimal fractions in real life situations Decimal equivalents of $\frac{1}{10}$, $\frac{1}{100}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Recognise and write decimal equivalents of and number of tenths and hundredths and some fractions Addition and subtraction/multiply and divide decimals Add and subtract decimals for money</p>	<p>Use language of fractions eg numerator/denominator Read, write, compare and order fractions to 100ths and beyond Recognise and understand common equivalent fractions Read/write, compare and order fractions and equivalent fractions Understand and use $\frac{1}{10^{\text{th}}}$ Add and subtract/multiply and divide fractions with the same and related denominator Solve problems involving increasingly harder fractions to calculate quantity Multiply proper fractions and mixed numbers by whole numbers Model decimal fractions to 100ths and beyond Use decimal fractions in real life situations Decimal equivalents of $\frac{1}{10}$, $\frac{1}{100}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Recognise and write decimal equivalents of and number of tenths and hundredths and some fractions Addition and subtraction/multiply and divide decimals Add and subtract decimals for money</p>	<p>Recognise and use thousandths Identify, name and write equivalent fractions including tenths and hundredths</p> <p>Use and understand Mixed numbers/improper fractions Add and subtract fractions with different denominators and mixed numbers Use common factors to simplify fractions Use factors and multiples to simplify fractions Simplify fractions and convert to mixed numbers Add and subtract with denominators which are multiples Add and subtract fractions with different denominators Multiply and divide simple fractions and mixed numbers Decimal fractions equivalent Read/write/compare and order decimal fractions to thousandths and beyond Add and subtract, Multiply and divide decimals Understand the relationship between fractions, decimals and percentages Introduce %, reading/writing/comparing and ordering Calculations of % and compare Convert between fractions, decimals and percentages Solve problems which require knowing % and decimal equivalent of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and fractions with a denominator of 10 or 25 Estimate and make approximations in real-life scenarios involving fractions, decimals and % Read, write, compare and order % Solve problems involving the calculation of % of a value eg 15% of 100</p>	<p>Recognise and use thousandths Identify, name and write equivalent fractions including tenths and hundredths</p> <p>Use and understand Mixed numbers/improper fractions Add and subtract fractions with different denominators and mixed numbers Use common factors to simplify fractions Use factors and multiples to simplify fractions Simplify fractions and convert to mixed numbers Add and subtract with denominators which are multiples Add and subtract fractions with different denominators Multiply and divide simple fractions and mixed numbers Decimal fractions equivalent Read/write/compare and order decimal fractions to thousandths and beyond Add and subtract, Multiply and divide decimals Understand the relationship between fractions, decimals and percentages Introduce %, reading/writing/comparing and ordering Calculations of % and compare Convert between fractions, decimals and percentages Solve problems which require knowing % and decimal equivalent of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and fractions with a denominator of 10 or 25 Estimate and make approximations in real-life scenarios involving fractions, decimals and % Read, write, compare and order % Solve problems involving the calculation of % of a value eg 15% of 100</p>	<p>Understand and work with proper and improper fractions 4 operations of fractions and decimals in positive and negative numbers Work interchangeably with terminating decimals and their corresponding fractions eg 3.5 and $\frac{7}{2}$ Introduce fractions/decimal/% work Find % of a value and compare different values % increase and decrease Solve problems involving % change including increase/decrease and original problems and simple interest</p>		





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Geometry		<p>Recognise and name 2D and 3D shapes</p> <p>Sort, describe and compare 2D and 3D shapes</p>	<p>Describe label and recognise 2D and 3D shapes</p> <p>Area and perimeter of simple shapes</p> <p>Draw 2D and make 3D shapes</p> <p>Analyse and describe the relationship between 2D and 3D shapes</p> <p>Analyse and use what they know about- 3D shapes to describe and work with 2D shapes</p>	<p>Area and perimeter in cm/m of complex shapes</p> <p>Understand the common language used to describe shapes</p> <p>Symmetry in the environment</p> <p>Understand properties of regular and irregular shapes</p> <p>Understand describe and model congruent in similar shapes and 2D shapes</p> <p>Sort, describe and model regular and irregular polygons</p> <p>Analyse and describe 2D and 3D shapes including regular and irregular polygons using geometrical vocabulary</p>	<p>Understand similar shapes and scale factors</p> <p>Perimeter of complex shapes</p> <p>Area of rectangle and square counting for estimating</p> <p>Understand that equal areas does not equal perimeters</p> <p>Formula for area perimeter and volumes of shape</p> <p>Area of parallelograms and triangles</p> <p>Dissect 3D shapes</p> <p>Drawing shapes accurately including angles</p> <p>Create and model how a 2D net converts into a 3D shape and vice versa</p> <p>Find unknown angles in regular polygons</p> <p>Labelling circles</p> <p>Understand the relationship between area and perimeter etc</p> <p>Understand the properties of regular and irregular shapes</p> <p>Understand the properties of circles</p> <p>Understand and use that 2D representations of 3D objects can be used to visualise and solve problems</p> <p>Analyse, describe, classify and visualise 2D and 3D shapes</p> <p>Recognise that shapes with the same area can have different perimeters</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Area of parallelograms and triangles</p> <p>Use 2D representation of 3D objects to visualise and solve problems</p> <p>Recognise describe and build simple 3D shapes including making nets</p>	<p>Accurately draw parallel lines, perpendicular, regular polygons etc.</p> <p>Draw/measure line segments</p> <p>Use formulae for perimeters/areas of shapes including triangles, parallelograms, trapezia, volume of cuboids and other prisms</p> <p>Labelling sides and angles of a triangle</p> <p>Construct triangles, congruent and similar.</p> <p>Know the faces and vertices etc of 3D shapes and use the information</p> <p>Problem solving of areas of shapes including circles</p> <p>Finding the perimeter and area of shapes using formulae</p> <p>Volumes of cylinders etc</p> <p>Understand that equal areas does not equal perimeters</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Area of parallelograms and triangles</p> <p>Calculate estimate and compare volume of cubes and cuboids using standard units including cubic centimetres and cubic meters, extending to other units</p> <p>Calculate and solve problems involving perimeters of 2D shapes, areas of circles and composite shapes</p> <p>Derive and use the sum of angles in a triangle to deduce the angle sum in any polygon and derive properties of regular polygons</p> <p>Apply angle facts and properties of quadrilaterals to derive results about angles and side including Pythagoras theorem and use known results to obtain simple proof</p> <p>Use the properties of faces, edges and vertices of cubes, prisms, cylinders, pyramids, cones and spheres to solve problems in 3D Interpret mathematical relationships both algebraically and geometrically</p>			





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Measurement		<p>Describe observations about events and objects</p> <p>Compare and solve problems in heights/weights etc in word form eg, longer, lighter, hotter,</p> <p>Compare length, mass and capacity using nonstandard units</p> <p>Use non standard units to solve problems in real life involving length, mass and capacity</p> <p>Measure in standard units</p> <p>Measure lengths, heights, mass/weight, capacity, volume and time</p> <p>Coins value</p> <p>Calendar facts</p> <p>Sequences of daily events</p> <p>Time to the nearest ½ hour</p>		<p>Understand that tools can be used to measure</p> <p>Estimate and measure objects using standard units of measurements</p> <p>Recognise and use standard units for height/weight/temperature/capacity (mm, cm, m etc)</p> <p>Can compare, add and subtract length, mass, volume/capacity</p> <p>Recognise and use symbols £ and p and they combine to give an amount</p> <p>Use and understand money</p> <p>Solve simple problems of money of the same unit including giving change</p> <p>Understand Calendars are to determine data and sequence of days, weeks and months</p> <p>Understand time can be measured in seconds, minutes, days, months, years etc</p> <p>Read time to the nearest 15 minutes</p> <p>Estimate and compare lengths of time to the nearest minute,</p>		<p>Understand relationships between units</p> <p>Select appropriate tools and units of measurements</p> <p>Convert between different units of measurement</p> <p>Use all 4 operations to solve problems involving measure</p> <p>Estimate and use standard measurement to measure perimeter, area and volume</p> <p>Understand and describe measures that can fall between numbers on a scale</p> <p>Add and subtract decimals for money</p> <p>Estimate and read the time to the nearest 5 minutes</p> <p>Read and write digital and analogue time on 12 hour and 24 hour clocks</p> <p>Use timelines in lines of enquiry and other real life situations</p>		<p>Convert between different standard units</p> <p>Use decimal and fraction notation in measurement eg 3.2cm, 1 ½ miles</p> <p>Read and interpret scales on a range of measuring instruments</p> <p>Select and use appropriate units of measurement and tools to solve real-life situations</p> <p>Determine and justify the level of accuracy required in real-life situations</p> <p>Calculate, estimate and compare volumes of cubes and cuboids using standard measurements</p> <p>Conversion between units of time</p> <p>Use timetables and schedules</p> <p>Determine times worldwide</p>		<p>Convert between miles and kilometres</p> <p>Change between different standard units up to 3 dp</p> <p>Solve problems involving the calculation and conversion of units of measure using decimal notation up to 3dp</p> <p>Scale drawing of maps/pictures using scales</p>	





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Operations		<p>Understands more/less first /second etc in maths language and can use the language</p> <p>Number bonds and operations for 1-20</p> <p>Add and subtract one digit and 2 digit numbers</p>	<p>Introduction to estimating</p> <p>Estimate quantity to 100</p> <p>Estimate answer to calculation and use inverse to check (sums and difference)</p> <p>Evaluate whether the answer is reasonable</p> <p>Can use addition and subtraction facts to 20 fluently</p> <p>Model + and – for whole numbers up to 100</p> <p>Understands inverse relationship between + and –</p> <p>Understand addition can be done in any order but subtraction can't</p> <p>Solve 1 step problems for multiplication and division using concrete objects, pictorial representations and arrays, repeated addition, mental addition and multiplication facts</p> <p>Understand situations that involve multiplication and division</p> <p>Describe written and mental strategies for adding and subtracting 2-digit numbers</p> <p>Calculate mathematical statements for multiplication and division for 2-digit numbers</p> <p>Select an appropriate method for solving a problem (mental, written or calculator methods)</p>	<p>Mental +/- for 3 and 4 digit number in real life situations</p> <p>Formal methods for + and – for 4 digit numbers</p> <p>Formal methods for / and x of 2 and 3 digit numbers</p> <p>Estimation and inverse operations to check answer</p> <p>Multiply and divide whole numbers and decimals by 10, 100, 1000</p> <p>Select an efficient method for solving a problem</p>	<p>Add and subtract 4 and more digits using column addition</p> <p>BODMAS</p> <p>Multiply and divide by 10, 100, 1000</p> <p>Divide up to 4 digits by 1 formally</p> <p>Multiply/divide digits by 2 digits formally</p>	<p>Understand the relationship between operations and their inverses</p> <p>4 operations of integers and decimals for +ve and –ve numbers</p> <p>4 operations of fractions and decimals in positive and negative numbers</p> <p>Substitute values into formula and expressions and simplify</p> <p>Start including brackets , powers roots and reciprocals in formulae</p> <p>Generate terms of a sequence from either a term-to-term or a position to term rule</p>				



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Position and direction	<p>Understand and use the common language that can be used to describe position and direction eg inside, outside, above</p> <p>Explore and describe the paths, regions and boundaries of their immediate environment and their position</p> <p>Position and movement up to $\frac{3}{4}$ of a turn</p>	<p>Direction and movement including clockwise and anti clockwise</p> <p>Recognise right angles, horizontal, perpendicular, vertical and parallel</p> <p>Recognise that 2 right angles make $\frac{1}{2}$ a turn, 3 makes $\frac{3}{4}$ of a turn and 4 a whole turn</p> <p>Identify if angles are less than or greater to a right angle</p> <p>Create and describe symmetrical and tessellating patterns</p> <p>Identify lines of reflective symmetry</p> <p>Apply knowledge of symmetry to problem solving situations</p> <p>Recognise and explain simple symmetrical designs in the environment</p> <p>Interprets and create and use simple directions describing paths, regions, positions and boundaries of their immediate environments</p> <p>Represent ideas about the real world using geometric vocabulary and symbols</p>		<p>Understand an angle is a measure of a rotation</p> <p>Analyse angles by comparing and describing rotations (whole, $\frac{1}{4}$ east etc)</p> <p>Describe mental images of patterns, objects, paths</p> <p>Angles up to obtuse and order up to 2 right angles</p> <p>Draw given angles and measure in degrees</p> <p>Understand that lines and axis of reflection and rotational symmetry assist with the construction of shapes</p> <p>Understand that directions for location can be represented on a grid with coordinates</p> <p>Locate features on grid using coordinates</p> <p>Recognise and explain symmetrical patterns including tessellation in the environment</p> <p>Apply knowledge of transformations to problem solving situations</p>		<p>Understand systems for describing position and direction</p> <p>Acute, obtuse, reflex angles and understand degrees</p> <p>Angles on a point/straight line</p> <p>Recognise angles where they meet at a point are on a straight line or are vertically opposite and find the missing angles</p> <p>Reflection/translation in first quadrant</p> <p>Points on a line/point/opposite</p> <p>4 quadrants plotting and translation</p> <p>Describe lines and angles using geometrical vocabulary</p> <p>Identify and use the language and notation of bearings to describe direction and position</p> <p>Construct angles using a protractor</p>		<p>Use of ruler and compasses correctly</p> <p>Describe sketch and draw using conventional terms and notations</p> <p>Draw and measure angles of shapes</p> <p>Draw and measure line segments and angles in geometric figures including interpreting scale drawings</p> <p>Angle facts for triangle congruence and quadrilaterals</p> <p>Parallel lines, alternate and corresponding angles in 4 quadrants</p> <p>Angles at a point, parallel lines, opposite angles and corresponding angles</p> <p>Know and use the criteria for congruence of triangles</p> <p>Recognise and use the perpendicular distance from a point to a line as the shortest distance</p> <p>Identify properties and describe the results of translations, rotations and reflections to a given point</p> <p>Draw translations, reflections and rotations</p>		





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Probability	Discuss chance in daily events (impossible, maybe, certain)		Understand the concept of chance, impossible, likely, maybe....) Express the chance of an event happening using words or phrases eg likely, less likely		Understand basic probability is based on experiments and express using simple fractions. Express probability using simple fraction Use probability to determine mathematically fair and unfair games to explain possible outcomes Understand that mode can be used to summarise a set of data Identify the mode of a set of data use tree diagrams to express probability using simple fractions		Probability 0-1 or 0%-100%		Understands that all outcomes in probability =1 Random/fair/probability events on a scale Introduce and use mean, median, mode and range for averages Can find the single and combined events for probability Random/fair/probability events on a scale





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Ratio and Proportion							Model ratios Read and write ratios in appropriate contexts Use ratios in real life situations Understand how ratio is used to enlarge and reduce shapes Identify and use ratio to enlarge and reduce shapes		Introduce ratio notation including reduction to simplest form. Ratio and reduction Understand that a relationship between 2 numbers can be expressed as a ratio or fraction





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Statistics		<p>Describe real objects and events by attributes</p> <p>Understand that sets can be organised by different attributes</p> <p>Create living graphs using real objects and people</p> <p>Understand that data can be collected in different ways</p> <p>Create pictographs and tally charts</p>	<p>Understand that data can be organised by different attributes</p> <p>Understand data can be collected and recorded in different ways</p> <p>Create a pictograph and sample bar graph of real objects and interpret data by comparing quantities eg fewer, greater than etc</p> <p>Collect and represent data in different ways, tally, bar graphs, block diagrams, tables</p> <p>Answer simple questions and 2 step questions based on data collected, displayed and interpreted</p> <p>Use tree, Venn and Carroll diagrams</p>	<p>Understand that data can be collected and interpreted using simple bar graphs and line graphs</p> <p>Design a survey and collect, organise and display using pictograms and bar charts.</p> <p>Co-ordinates in first quadrant</p> <p>Collect display and interpret using bar graphs, line graphs</p> <p>Understand that scale can represent different quantities in graphs</p> <p>Continuous data including time graphs</p> <p>Introduce and use Mode in data translation</p>	<p>Understand that data can be collected and interpreted using simple bar graphs and line graphs</p> <p>Design a survey and collect, record, organise and display the data in a bar graph, pie chart and line graph.</p> <p>Comparison, sum and difference problems on line graphs</p> <p>Timetables, read and construct</p> <p>Identify describe and explain the range, mode, median and mean in a set of data</p> <p>Introduce and use Mode, median, mean and Range to summarise a set of data</p> <p>Set up a spreadsheet using simple formulae's to manipulate data and create graphs</p> <p>Create and manipulate an electronic database for their own purposes</p>	<p>Collect and display data using Pie charts and line graphs</p> <p>Design a survey and collect, record, organise and display the data in a bar graph, pie chart and line graph.</p> <p>Comparison, sum and difference problems on line graphs</p> <p>Timetables, read and construct</p> <p>Identify describe and explain the range, mode, median and mean in a set of data</p> <p>Introduce and use Mode, median, mean and Range to summarise a set of data</p> <p>Set up a spreadsheet using simple formulae's to manipulate data and create graphs</p> <p>Create and manipulate an electronic database for their own purposes</p>	<p>Discrete, group data collected and represented</p> <p>Construct different graphs and tables</p> <p>Graphs of linear functions in x and y and quadratic graphs</p> <p>Frequency tables and scatter graphs</p> <p>Plotting coordinates in 4 quadrants</p> <p>Use linear and quadratic graphs to estimate values of y for given values of x etc</p> <p>Find approximate solutions to problems from given graphs</p> <p>Record, describe and analyse frequency of outcomes in probability.</p> <p>Enumerate sets and unions/intersections of sets systematically using table grids and Venn diagrams</p> <p>Describe interpret and compare observed distributions of a single variable</p> <p>Describe simple mathematical relationships between 2 variables in observational and experimental contexts and illustrate using scatter graphs</p>			

