



The Riverview Academy Curriculum Progression : Maths

EXCELLENCE AND AMBITION FOR ALL

Respect

Excellence

Resilience

Teamwork

Kindness

Responsibility

Whole School: Riverview Curriculum Intent

At The Riverview Academy, our values are at the heart of everything we do. We are a kind, inclusive community that embraces individuality and creates opportunities for all, irrespective of gender, race, disability or background. Through excellent education in a safe and nurturing environment, we empower every child to become the very best version of themselves. Guided by kindness, excellence, respect, resilience and teamwork, our children grow into confident, creative learners who make a positive difference to our school, our community, and the wider world.

Maths: Riverview Curriculum Intent

At The Riverview Academy, our maths curriculum is designed to develop confident, fluent and resilient mathematicians who understand the importance of mathematics in everyday life and the wider world. We aim to ensure that all pupils develop secure mathematical knowledge, can reason clearly about their thinking and can apply what they know to solve increasingly complex problems.

From the Early Years, children develop strong foundations in number, pattern, shape, space and measure through practical exploration, talk and purposeful mathematical experiences. These foundations are built upon in Key Stage 1, where pupils develop fluency with number, calculation and mathematical relationships, supported by concrete resources, pictorial representations and clear mathematical language.

As pupils move through Key Stage 2, they develop increasingly secure and efficient methods, deepen their understanding of mathematical structures and make connections between different areas of mathematics. Pupils are taught to recall key facts fluently, reason mathematically, explain and justify their thinking and select appropriate strategies when solving problems. Carefully sequenced learning enables pupils to move from concrete and pictorial representations towards increasingly abstract mathematical thinking.

Across all stages, fluency, reasoning and problem solving are developed alongside one another. Retrieval practice, arithmetic, mathematical discussion and opportunities to revisit prior learning help pupils retain important knowledge and build automaticity. By the time pupils leave The Riverview Academy, they will have the knowledge, confidence and resilience to approach mathematics positively, apply their learning independently and be well prepared for the next stage of their mathematical education.

Our Five Pedagogical Pillars

At Riverview, our approach to teaching and learning is grounded in five key pedagogical pillars, all underpinned by a well-planned curriculum that is sequential and progressive. These pillars work together to ensure that every child is supported to access the curriculum, make progress, and thrive. Where needed, bespoke adaptations and provision are made to ensure every child can succeed. This framework ensures we are consistent, inclusive, and ambitious in our approach to teaching and learning across the school. The 5 pillars are:

Effective Questioning:

We use strategies such as Think-Pair-Share and ABC (Agree, Build, Challenge) to promote deep thinking, discussion, and engagement.

Modelling:

Lessons are built around the I do, we do, you do approach to provide clear scaffolding and build independence.

Retrieval Practice:

Children regularly recall prior learning to strengthen memory, make connections, and deepen understanding.

Formative Assessment:

Assessment is used to improve, not prove learning. Teachers adapt teaching responsively based on what children know and need next.

Planning for Mastery:

We use temporary scaffolds and supports to enable all learners to access the curriculum and achieve success.

Happy and safe children engaging with the curriculum and making progress towards end of key stage outcomes. All children have access to the curriculum with appropriate adaptations made and bespoke curriculum for children that measure progress in a different way.

Effective Questioning
– Think, Pair, Share &
ABC

Modelling – I do,
we do, you do

Retrieval Practice

Formative assessment
to improve, not prove

Planning for Mastery –
temporary scaffolds used to
allow all to access the
curriculum

A well-planned curriculum that is sequential and progressive.

Maths Implementation

At The Riverview Academy, maths is taught in carefully sequenced units, with pupils spending sufficient time developing secure understanding before moving on to new learning. Our curriculum is broadly structured around the White Rose Maths small steps, ensuring clear progression within and across year groups while maintaining full coverage of the National Curriculum.

Teaching follows a Concrete–Pictorial–Abstract (CPA) approach. Pupils first encounter mathematical ideas through practical resources and manipulatives, before moving towards visual representations and, when secure, more abstract methods and notation. Teachers move flexibly between these stages depending on pupils' understanding, using representation and scaffolding to support access while maintaining high expectations for all.

Prior learning is deliberately revisited through retrieval practice, Flashback 4, arithmetic and planned opportunities to make connections between mathematical concepts. Learning is not treated as complete once a unit has finished; important knowledge is returned to throughout the year. For example, multiplication and division are revisited through fractions, area, measure and problem solving. Where assessment identifies misconceptions or gaps, these are addressed through responsive teaching, additional modelling, targeted support and subsequent opportunities to revisit the learning.

Mathematical fluency is developed alongside reasoning and problem solving. Pupils are expected to recall key number facts and multiplication facts with increasing automaticity, supported by regular arithmetic practice and tools such as Times Tables Rock Stars. Mathematical talk is an important part of lessons, with pupils encouraged to explain methods, justify choices, compare strategies and use precise mathematical vocabulary.

Planning and Teaching Units

When planning a unit, teachers use the White Rose Maths progression and small steps as the main framework. This provides the expected sequence of learning and helps ensure that new knowledge builds logically on what pupils already know. Teachers use the associated White Rose materials as a starting point rather than a script, adapting lessons to meet the needs of their class and ensuring that modelling, questioning, retrieval and opportunities for reasoning are purposeful.

Lessons reflect the principles of our Instructional Playbook. Teachers explicitly model new learning using an I Do – We Do – You Do approach, check understanding throughout the lesson and adapt teaching in response to what pupils know and can do. Concrete resources, worked examples, visual representations and carefully chosen questions are used to expose mathematical structure and address likely misconceptions.

Teachers use ongoing formative assessment to identify when pupils are ready to move on, when further practice is required and when learning needs to be revisited. Support is designed to help pupils access the same mathematical thinking wherever possible, while appropriate challenge enables pupils to reason more deeply, make connections and apply their understanding in unfamiliar contexts.

Across the school, this consistent approach ensures that pupils build secure foundations, retain important knowledge and develop the confidence to use mathematics accurately, efficiently and independently.

Cultural Capital and Enrichment

Where did the term cultural capital come from?

In the 1970s, Pierre Bourdieu, a French sociologist, developed the idea of cultural capital as a way to explain how power in society was transferred and social classes maintained. Bourdieu believed that cultural capital played an important, and subtle role. For Bourdieu, the more capital you have the more powerful you are.

Bourdieu saw families passing on cultural capital to their children by introducing them to dance and music, taking them to theatres, galleries and historic sites, and by talking about literature and art over the dinner table. The Riverview Academy is committed to ensuring all our pupils are equipped with the knowledge and cultural capital they need to succeed in life. Our curriculum and provision ensure that all our pupils acquire the essential knowledge they need to be educated citizens. We want all our pupils to leave Riverview, by the end of KS2, with aspirational goals for their future, without any limitations. We have carefully considered four domains for promoting and improving each child's level of cultural capital, based on research by Bourdieu. We believe that the more cultural capital a child has, the more likely they are to succeed in life and reach their potential.

Place Value							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Count	Number Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5. Numerical Patterns Verbally count beyond 20, recognising the pattern of the counting system.	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count numbers to 100 in numerals; count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	count in multiples of 6, 7, 9, 25 and 1000 count backwards through zero to include negative numbers	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 count forwards and backwards with positive and negative whole numbers, including through zero	
Place Value: Represent		identify and represent numbers using objects and pictorial representations. read and write numbers to 100 in numerals read and write numbers from 1 to 20 in numerals and words	read and write numbers to at least 100 in numerals and in words identify, represent and estimate numbers using different representations, including the number line	identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words	identify, represent and estimate numbers using different representations read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit read Roman numerals to 1000 (M) and recognise years written in Roman numerals	read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit

Place Value							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Use and Compare		given a number, identify one more and one less	recognise the place value of each digit in a two-digit number (tens, ones) • compare and order numbers from 0 up to 100	recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • compare and order numbers up to 1000	find 1000 more or less than a given number recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000	(read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit	(read, write), order and compare numbers up to 10 000 000 and determine the value of each digit
Place Value: Problems/ Rounding			use place value and number facts to solve problems	solve number problems and practical problems involving these ideas	round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers	interpret negative numbers in context round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above	round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above

Addition and Subtraction

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition and Subtraction: Calculations	Number Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts Numerical Patterns Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	add and subtract one-digit and two digit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: ➤ a two-digit number and ones ➤ a two-digit number and tens ➤ two two-digit numbers ➤ adding three one	add and subtract numbers mentally, including: ➤ a three-digit number and ones ➤ a three-digit number and tens ➤ a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out calculations involving the four operations

Addition and Subtraction

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition and Subtraction: Problems		solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$	solve problems with addition and subtraction: ➤ using concrete objects and pictorial representations, including those involving numbers, quantities and measures ➤ applying their increasing knowledge of mental and written methods	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Multiplication and Division

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division: Recall/Use	Numerical Patterns Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.		recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	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 three numbers recognise and use factor pairs and commutativity in mental calculations	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	identify common factors, common multiples and prime numbers use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Multiplication and Division

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division: Calculations			calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	multiply two-digit and three-digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context perform mental calculations, including with mixed operations and large numbers

Multiplication and Division

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division: Problems		solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations, and arrays with the support of the teacher	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division
Multiplication and Division: Combined						solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	use their knowledge of the order of operations to carry out calculations involving the four operations

Fractions, Decimals, and Percentages

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Recognise and Write		recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non unit fractions with small denominators	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$]	

Fractions, Decimals, and Percentages

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Compare			recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	recognise and show, using diagrams, equivalent fractions	recognise and show, using diagrams,	compare and order fractions whose denominators are all	use common factors to simplify fractions; use common
Fractions Calculations			write simple fractions for example, $\frac{1}{2}$ of 6 = 3	add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$]

Fractions, Decimals, and Percentages

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Solve Problems				solve problems that involve all the above	solve problem involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number		
Decimals: Recognise, Write, and Compare					recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places	read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents round decimals with two decimal places to the nearest whole number and to one decimal place read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places

Fractions, Decimals, and Percentages

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions, Decimals, and Percentages					solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Ratio and Proportion, and Algebra

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Ratio and Proportion							solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving the calculation/use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Ratio and Proportion, and Algebra

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algebra		<i>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = -9$</i>	<i>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</i>	<i>solve problems, including missing number problems</i>			use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables

Measurement							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Using Measures		compare, describe and solve practical problems for: ➤ lengths and heights ➤ mass/weight ➤ capacity and volume ➤ time measure and begin to record the following: ➤ lengths and heights ➤ mass/weight ➤ capacity and volume ➤ time (hours, minutes, seconds)	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and =	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	convert between different units of measure [for example, kilometre to metre, hour to minute] estimate, compare and calculate different measures	convert between different units of metric measure understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 d.p. convert between miles and kilometres

Measurement

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Time		sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour Clocks draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day	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	solve problems involving converting between units of time	use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa

Measurement							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Money		recognise and know the value of different denominations of coins and notes	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value • find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	add and subtract amounts of money to give change, using both £ and p in practical contexts	estimate, compare and calculate different measures, including money in pounds and pence	use all four operations to solve problems involving measure [for example, money]	
Perimeter, Area, and Volume				measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]	recognise that shapes with the same area can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units

Geometry

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-D Shapes	select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes to recognise shapes can have other shapes within in it, just like numbers can	recognise and name common 2- D shapes [for example, rectangles (including squares), circles and triangles]	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D shapes and everyday objects	draw 2-D shapes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify lines of symmetry in 2-D shapes presented in different orientations	distinguish between regular and irregular polygons based on reasoning about equal sides and angles. use the properties of rectangles to deduce related facts and find missing lengths and angles	draw 2-D shapes using given dimensions and angles compare and classify geometric shapes based on their properties and sizes illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
3-D Shapes		recognise and name common 3- D shapes [for example, cuboids (including cubes), pyramids and spheres]	recognise and name common 3- D shapes [for example, cuboids (including cubes), pyramids and spheres] compare and sort common 3-D shapes and everyday objects	make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them		identify 3-D shapes, including cubes and other cuboids, from 2-D representations	recognise, describe and build simple 3-D shapes, including making nets

Geometry

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Angles and Lines				recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify acute and obtuse angles and compare and order angles up to two 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	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees identify: ➤ angles at a point and one whole turn (total 360°) ➤ angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) ➤ other multiples of 90°	find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Geometry

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Position and Direction		describe position, direction and movement, including whole, half, quarter and three-quarter turns	order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)		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	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Statistics							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics: Present and Interpret Data			interpret and construct simple pictograms, tally charts, block diagrams and simple tables	interpret and present data using bar charts, pictograms and tables	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	complete, read and interpret information in tables, including timetables	interpret and construct pie charts and line graphs and use these to solve problems
Statistics: Problems			ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data	solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average