



Knowledge Progression in Maths

Key Knowledge Area: Place value: Counting						
Throughout their school career, a North Downs pupil will...						
Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <p>Count numbers to 100 in numerals: count in multiples of 2, 5 and 10s</p>	<p>Count in steps of 2,3 and 5 from 0, and in 10s from any number, forward and backward.</p>	<p>Count from 0 in multiples of 4, 8, 50 and 100.</p> <p>Find 10 or 100 more or less than a given number</p>	<p>Count in multiples of 6, 7, 9, 25 and 1000.</p> <p>Count backwards through zero to include negative numbers</p>	<p>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>Count forwards and backwards with positive and negative whole numbers, including through zero</p>	
Key Knowledge Area: Place Value: represent						
Throughout their school career, a North Downs pupil will...						
Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>Identify and represent numbers using objects and pictorial representations.</p> <p>Read and write numbers to 100 in numerals</p> <p>Read any write numbers from 1 to 20 in words and numerals</p>	<p>Read and write numbers to at least 100 in numerals and in words.</p> <p>Identify, represent and estimate numbers using different representations, including the number line</p>	<p>identify, represent and estimate numbers using different representations</p> <p>Read and write numbers up to 1000 in numerals and words</p>	<p>identify, represent and estimate numbers using different representations</p> <p>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</p>	<p>Read, write (order and compare) numbers to at least 1,000,000 and determine the value of each digit.</p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p>	<p>Read, write (order and compare) numbers to at least 10,000,000 and determine the value of each digit.</p>

Key Knowledge Area: Place Value: Use PV and compare.

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Given a number, identify 1 more and 1 less.	Recognise the place value of each digit in a two digit number (tens and ones) Compare and order numbers from 0 up to 100; use <> and = signs	Recognise the place value of each digit in a three digit number (hundreds, tens and 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) Compare and order 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 to at least 10,000,000 and determine the value of each digit.

Key Knowledge Area: Place value: Problems and rounding

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		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 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 requires degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number problems that involve all of the above.

Key Knowledge Area: Addition and subtraction: Recall, represent, Use						
Throughout their school career, a North Downs pupil will...						
Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</p> <p>Represent and use number bonds and related subtraction facts within 20</p>	<p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</p> <p>Show that addition of two numbers can be done in any order (Commutative) and subtraction of one number from another cannot.</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>	<p>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</p> <p>Represent and use number bonds and related subtraction facts within 20</p>	<p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</p> <p>Show that addition of two numbers can be done in any order (Commutative) and subtraction of one number from another cannot.</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>	<p>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.</p> <p>Represent and use number bonds and related subtraction facts within 20</p>	<p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</p> <p>Show that addition of two numbers can be done in any order (Commutative) and subtraction of one number from another cannot.</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>
Key Knowledge Area: Addition and Subtraction: Calculations						
Throughout their school career, a North Downs pupil will...						
Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6

	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 10s two 2 digit numbers adding three one digit numbers	add and subtract numbers mentally including: a 3 digit number and ones a 3 digit number and 10s 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 four digits using 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.
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Key Knowledge Area: Addition and Subtraction: Solving Problems

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems such as $7 = _ - 9$	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	solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems such as $7 = _ - 9$

					meaning of the equals sign	
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Key Knowledge Area: Multiplication and Division:
Recall, Represent, Use

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables including recognising odd and even numbers</p> <p>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</p>	<p>recall and use multiplication and division facts for the three four and eight multiplication tables</p>	<p>recall multiplication and division facts for multiplication tables up to 12 x 12</p> <p>use place value known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</p> <p>recognise and use factor pairs and commutativity mental calculations</p>	<p>identify multiples and factors including finding all factor pairs of a number and common factors of 2 numbers</p> <p>know and use vocabulary of prime numbers, prime factors and composite(non prime) numbers</p> <p>establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>recognise and use square numbers and cube numbers the notation for squared and cubed.</p>	<p>identify common factors, common multiples and prime numbers</p> <p>use estimation to check to answers to calculations and determine, in the context of a problem. an appropriate degree of accuracy.</p>

Key Knowledge Area: Multiplication and Division: calculation

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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		<p>calculate mathematical statements for multiplication and division within multiplication tables and write them using the multiplication division and equals signs</p>	<p>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</p>	<p>multiply two digit and three digit numbers by a one digit number using formal written layout</p>	<p>multiply numbers up to four digits by a one or two digit number using a formal written method including long multiplication for two digit numbers</p> <p>multiply and divide numbers mentally drawing upon known facts</p> <p>divide numbers up to four digits by a one digit number using formal written method of short division and interpret remainders appropriately for the context</p> <p>multiply and divide whole numbers and those involving decimals by 10,100 and 1000</p>	<p>multiply multi digit numbers up to four digits by a two digit whole number using the formal written method of long multiplication</p> <p>divide numbers up to four 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</p> <p>divide numbers up to four 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</p>
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						mixed operations and large numbers
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Key Knowledge Area: Multiplication and Division: Solve Problems

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	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 2 digit numbers by 1 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 fraction and problems involving simple rates	solve problems involving addition subtraction multiplication and division

Key Knowledge Area: Multiplication and Division: Combined Operations

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					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

Key Knowledge Area: Fractions - Recognise and write

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>recognise find and name a half as one of two equal parts of an object shape or quantity</p> <p>recognise find an name a quarter as one of four equal parts of an object shape or quantity</p>	<p>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.</p>	<p>count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers in or quantity's by 10</p> <p>recognise find and write fractions of a discrete set of objects: unit fractions and non unit fractions with small denominators</p> <p>recognise and use fractions as numbers: unit fractions and non unit fractions with small denominators</p>	<p>count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10</p>	<p>identify name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths</p> <p>recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as mixed number for example</p>	

Key Knowledge Area: Fractions - compare

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
		<p>recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p>	<p>recognise an show using diagrams, equivalent fractions with small denominators</p>	<p>recognise an show using diagrams, families of common equivalent fractions</p>	<p>compare and order fractions whose denominators are all multiples of the same number</p>	<p>use common factors to simplify fractions; balls use common multiples to express fractions</p>

			compare and order unit fractions, and fractions with the same denominators			in the same denomination nomination fractions compare and under order fractions, including fractions > 1
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Key Knowledge Area: Fractions - calculations

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Write simple fractions for example $\frac{1}{2}$ of 6 = 3	add and subtract fractions with the same denominator within one whole for example $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$		

Key Knowledge Area: Fractions - Solve problems

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			solve problems that involve all of the above	solve problems involving increasingly hard fractions to calculate quantities, and fractions to divide quantities, including non unit fractions where the answer is a whole number		

Key Knowledge Area: Decimals - recognise and write

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
				recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalent to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$	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	identify the value of each digit in numbers given to three decimal places

Key Knowledge Area: Decimals - compare

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
				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	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	

Key Knowledge Area: Decimals - calculations and problems

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				find the effect of dividing a one or two digit number by 10 and 100 identifying the value of the digits in the answers as ones, tenths and hundredths	solve problems involving number up to three decimal places	multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply 1 digit numbers with up to two decimal places by whole numbers use written division methods in cases where the answer has up to two decimal places solve problems which require answers to be rounded to specific degrees of accuracy

Key Knowledge Area: Fractions, decimals and percentages

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol and understand that percent relates to number of parts per hundred and write percentages as a fraction with	associate a fraction with division and calculate decimal fraction equivalents for a simple fraction

					<p>the denominator 100 and as a decimal</p> <p>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 the nominator of a multiple of 10 or 25</p>	<p>recall and use equivalence is between simple fractions decimals and percentages including in different contexts</p>
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Key Knowledge Area: ratio and proportion

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						<p>solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>solve problems involving the calculation of percentages and the use of percentages for comparison</p> <p>solve problems involving similar</p>

						<p>shapes where the scale factor is known or can be found</p> <p>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>
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Key Knowledge Area: Algebra

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
						<p>use simple formula</p> <p>generate and describe linear number sequences</p> <p>express missing number problems algebraically</p> <p>find pairs of numbers that satisfy an equation with two unknowns</p> <p>enumerate possibilities of combinations of two variables</p>

Key Knowledge Area: Using measure

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>Compare, describe and solve practical problems for : lengths and height mass/weight capacity and volume time</p> <p>measure and begin to record the following: lengths and height mass/ weight capacity /volume time (hours, minutes, seconds)</p>	<p>choose and use appropriate standard units to estimate and measure length/ height in any direction mass temperature capacity to the nearest appropriate unit using rulers scales thermometers and measuring vessels</p> <p>compare and order Length, mass, volume/ capacity and record the results using > <and =</p>	<p>Measure, compare, add and subtract lengths (m/cm/mm); mass (kg,g); volume/capacity (l/ml)</p>	<p>convert between different units of measure</p> <p>estimate compare and calculate different measures</p>	<p>convert between different units of metric measure</p> <p>understand and use approximate equivalence is between metric units an common imperial units such as inches pounds and pints</p> <p>use all four operations to solve problems involving measure using decimal notation including scaling</p>	<p>solve problems involving the calculation and conversion of units of measure using decimal notation up to three decimal places where appropriate</p> <p>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 notations up to three decimal places</p> <p>convert between miles and kilometres</p>

Key Knowledge Area: Measurement - using money

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
	<p>recognise an know the value of different</p>	<p>recognise and use the symbols for pounds (£) and</p>	<p>add and subtract amount of money to give change</p>	<p>Estimate, compare and calculate different measures</p>	<p>use all four operations to solve problems involving</p>	

	denominations of coins and notes	<p>pence (p) combine amounts to make a particular value</p> <p>find different combinations of coins that equal the same amount of money</p> <p>solve simple problems in a practical context involving addition and subtraction of money of the same unit including giving change</p>	using both pounds and pence in practical context	including money in pounds and pence	measure for example money	
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Key Knowledge Area: Measurement - time

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p>sequence events in chronological order using language for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening</p> <p>recognise and use language relating to dates, including days of the week, weeks, months and years</p>	<p>compare and sequence intervals of time</p> <p>tell and write the time to five minutes, including quarter past/to the hour and draw the hands on the clock face to show these times</p> <p>know the number of minutes in an hour and the</p>	<p>tell and write the time from an analogue clock including using Roman numerals from I to XII and 12 hour and 24 hour clocks</p> <p>estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours;</p>	<p>read write and convert time between analogue and digital 12 and 24 hour clocks</p> <p>solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</p>	<p>solve problems involving converting between units of time</p>	<p>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</p>

	tell time to the hour and half past the hour and draw hands on the clock face to show these times	number of hours in a day	<p>use vocabulary such as o'clock, am/pm ,morning, afternoon, noon and midnight</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>compare durations of events for example to calculate the time taken by a particular event or task</p>			
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Key Knowledge Area: Measurement - Perimeter, area, volume

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
			<p>sequence events in chronological order using language for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening</p> <p>recognise and use language relating to dates, including days of the week,</p>	<p>compare and sequence intervals of time</p> <p>tell and write the time to five minutes, including quarter past/to the hour and draw the hands on the clock face to show these times</p> <p>know the number of minutes in an hour and the</p>	<p>tell and write the time from an analogue clock including using Roman numerals from I too XII and 12 hour and 24 hour clocks</p> <p>estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds,</p>	<p>read write and convert time between analogue and digital 12 and 24 hour clocks</p> <p>solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days</p>

			<p>weeks, months and years</p> <p>tell time to the hour and half past the hour and draw hands on the clock face to show these times</p>	<p>number of hours in a day</p>	<p>minutes and hours; use vocabulary such as o'clock, am/pm ,morning, afternoon, noon and midnight</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>compare durations of events for example to calculate the time taken by a particular event or task</p>	
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Key Knowledge Area: Geometry - 2D shapes

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>recognise an name, 2D shapes for example rectangles (including squares), circles and triangles</p>	<p>identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line</p> <p>identify 2D shapes on the surface of 3D shapes)for example a circle on a cylinder and a</p>	<p>draw 2D shapes</p>	<p>compare and classify geometric shapes including quadrilaterals and triangles based on their properties and size</p> <p>identify lines of symmetry in 2D shapes presented on different orientations</p>	<p>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>use the properties of rectangles to juice related facts and find missing lengths and angles</p>

			triangle on a pyramid)			
			compare and sort common 2D shapes and everyday objects			

Key Knowledge Area: Geometry - 3D shapes

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		recognise and name common 3D shapes for example cuboids including cubes pyramids and spheres	recognise and name common 3D shapes for example cuboids including cubes pyramids and spheres compare and sort common 3D shapes and everyday objects	make 3D shapes using modelling materials recognise 3D shapes in different orientations and describe them		identify 3D shapes including cubes and other cuboids from 2D representations

Key Knowledge Area: Geometry - Angles and lines

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			recognise angles as a property of shape or a description of a turn identify right angles recognise that two right angles make half a turn three make 3/4 of a turn and four a complete turn; identify	identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2D shapes represented in different orientations	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees identify:	find unknown angles in any triangles, quadrilaterals and regular polygons recognise angles where they meet at a point, on a straight line or are vertically opposite and find missing angles

			<p>whether angles are greater than or less than a right angle</p> <p>identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>complete a simple symmetrical figure with respect to a specific line of symmetry</p>	<p>angles at a point and one whole turn</p> <p>angles at a point on a straight line and half a turn</p> <p>other multiples of 90 degrees</p>	
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Key Knowledge Area: Geometry - Position and direction

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>describe position direction and movement, including whole, half, quarter and three quarter turns</p>	<p>order and arrange combinations of mathematical objects in patterns and sequences</p> <p>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</p>		<p>describe positions on a 2D grid as coordinates in the first quadrant</p> <p>describe movements between positions as translations of a given unit to the left/ right and up/ down</p> <p>plot specified points and draw sides to give to complete a given Polygon</p>	<p>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</p>

Key Knowledge Area: Statistics - present and interpret

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
		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

Key Knowledge Area: Statistics - Solve problems

Throughout their school career, a North Downs pupil will...

Foundation	Year 1	Year 2	Year 3	Year 4	Year5	Year 6
		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 chart and pick to grammes 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