



"Mathematics is, in its way, the poetry of logical ideas." - Albert Einstein

Statement of Intent

Mathematics is an important creative discipline that helps us to understand and change the world. We want all pupils at Wantage CE Primary School to experience the beauty, power and enjoyment of mathematics and develop a sense of curiosity about the subject.

At Wantage CE Primary School, we foster positive 'can do' attitudes, believe all children can achieve in mathematics, and teach for secure and deep understanding of mathematical concepts. We encourage discussion and verbal reasoning to help secure understanding. We use mistakes as an essential part of learning and provide challenge for all pupils through rich and sophisticated problems before acceleration through new content.

"The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on."

~National Curriculum – Mathematics programme of study



We aim for all pupils to:

- Become fluent in the fundamental of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- Can solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios
- Can reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language
- Have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics





Implementation

Planning and Lesson

At Wantage CE Primary school we follow the White Rose Maths Schemes of Learning to aid sequencing of work. Teachers will use the SOL, small steps sequencing, supporting materials and knowledge of the pupils to inform their weekly and daily lesson planning.

Lessons are 45 minutes long.

In lessons Teachers will consider the following strategies to aid learning by the pupils (each element does not need to be included in every lesson):

- Varied Fluency (Do it)
 - What it is/What it is not (conceptual variation)
 - o Practise
 - Missing number questions
 - o Deliberately chosen questions (procedural variation)
- Reasoning (Secure it)
 - o Spot the mistake
 - Always, sometimes, never
 - $\circ \quad \text{Odd one out} \quad$
 - o Convince me/prove it/prove it with a picture
 - $\circ \quad \text{True or false} \\$
 - o If I know..., I can work out...
 - Explain how you know
- Problem Solving (Deepen it)
 - Applying the maths to a problem
 - Problem solving activities
 - Word problems
 - o All the possibilities
 - Working systematically
 - The answer is only the beginning





- Stem sentences including generalisations
- Use of my turn, your turn to encourage children to talk in sentences about mathematical concepts
- Explaining their mathematical thinking using precise mathematical vocabulary
- Procedural variation/conceptual variation
- Make links to other areas of maths or 'real' life situations.
- Small steps (don't make new concepts too big)
- Making links between the concrete, pictorial and abstract manipulatives should be temporary and should act as a scaffold
- Children to be exposed to a range of concrete, visual or conceptual representations
- Misconceptions Learning from our mistakes
- Use assessment to inform you of what the children do and do not know
- Fluent recall of facts
- Well timed interventions

Enhancements

"... [practice] ... seems entirely sensible as part of a sound learning process. Nobody ever excels at anything without lots of practice and that starts with the way we conduct our lessons"

Tom Sherrington, Rosenshine's Principles in Action

In addition to the daily maths lesson, there will be a daily practise session of key skills.

At Wantage CE Primary school teachers in Key Stage 2, assess pupils to ascertain gaps in learning. They will then plan and teach a programme of study that addresses areas of development. The daily practice will take between 20 and 25 minutes per day. In Key stage 1, teachers will follow the mastering number programme. Counting and key number fact work will also be included within these sessions.

Children can also explore a concept in even greater depth through 'Diving Even Deeper' challenges.

Children in EYFS, Year 1 and Year 2 will use the Numbots programme to support the learning and practise of key addition and subtraction facts. Children in Y2 – Y6 will use the TimesTable Rockstar programme to support the learning and practise of key multiplication and division facts.





Assessment

Teachers will use assessment for learning opportunities throughout a maths lesson and address any misconceptions with timely interventions. Daily reviews of children's learning will also enable teachers to identify where extra support is needed before proceeding with the next concept.

Teachers will make end of term judgements three times per year. In order to support their termly Teacher Assessment, teachers can use: knowledge of the children; children's books and independent learning; end of term assessment papers from which a programme of study can then be developed At the end of KS1 and KS2, teachers will Teacher Assess each pupil against the National Framework. National Tests will be taken at the end of KS2.

Impact

The mathematics leader has developed a consistent approach to the teaching of mathematics across the school. Teachers plan learning following a 'do it, secure it, deepen it' approach. Pupils are given a range of challenging opportunities to practise and apply their skills to reason and problem solve in different contexts. Teachers have strong mathematical subject knowledge. They explain concepts and model learning well, using accurate mathematical vocabulary. They identify and tackle pupils' misconceptions swiftly, providing pupils with additional support if needed. Teachers make effective use of practical resources and pictorial representations to support pupils' conceptual understanding. Consequently, in mathematics pupils make good progress from their starting points. Pupils develop a secure understanding of number and calculation. They confidently tackle calculations and problems of increasing difficulty, using mathematical vocabulary to articulate their understanding accurately.

Wantage CE Ofsted Inspection – July 2019

Year	EYFS GLD	KS1 Maths	KS2 Maths	KS2 GD Maths
2019	77%	72%	69%	12%
2022	65%	63%	58%	5%
2023	54%	70%	74%	22%
2024	63%	76%	69%	21%





Areas of Mathematics: Number; number: calculation; number: fractions, decimals and percentages; Measure; Geometry; statistics

Year/Term	Number counting and place value	Number comparing and ordering, Reading and writing	Measure	Geometry	Position and direction	Patterns
Nursery	 Through continuous provision children will: Develop fast recognition of up to 3 objects, without having to count them individually ('subitising') Recite numbers past 5 Say one number for each item in order: 1,2,3,4,5 Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle') Show 'finger numbers' up to 5 Solve real world mathematical problems with numbers up to 5 	 Through continuous provision children will: Compare quantities using language: 'more than', 'fewer than' Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 Experiment with their own symbols and marks as well as numerals Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' 	 Through continuous provision children will: Make comparisons between objects relating to size, length, weight and capacity. 	 Through continuous provision children will: Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc. 	 Through continuous provision children will: Understand position through words alone – for example, "The bag is under the table," – with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'. 	 Through continuous provision children will: Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then'





Year/Term	Autumn: Terms 1 and 2	Spring: Terms 3 and 4	Summer: Terms 5 and 6
Year/Term Reception	 Autumn: Terms 1 and 2 Numbers and the Number System Subitising Perceptually subitise within 3, 4 then perceptually and conceptually within 5 Identify sub-groups in larger arrangements Experience subitising in a range of context, including using their fingers and temporal patterns by sounds Cardinality, ordinality and counting Relate the counting sequence to cardinality Count through rhyme and song Count accurately Explore the cardinality of 5 Begin to count beyond 5 Begin to recognise numerals, relating these to quantities Composition See that all numbers can be made of 1s Explore the composition of numbers within 5 Comparison Understand that sets can be compared according to a range of attributes Use the language of comparison, including 'more than' and 'fewer than' 	 Spring: Terms 3 and 4 Numbers and the Number System Subitising Continue to subitise within 5 Explore a range of patterns made by some numbers greater than 5 Experience patterns which show a small group and '1 more' Match arrangements to finger patterns Link patterns to 'doubles' Cardinality, ordinality and counting Develop verbal counting to 20 and beyond Continue to develop object counting skills Link counting to cardinality for quantities between 5 and 10 Order number, linking cardinal and ordinal representations of number Explore the composition of 6 Begin to see that numbers within 10 can be composed to of '5 and a bit' Explore the composition of odd and even numbers Begin to link even numbers to doubles Explore the composition of numbers within 10 Comparison Compare sets and use the language of comparison Compare set by matching, identifying when sets are equal Explore numbers, reasoning about which is more 	 Summer: Terms 5 and 6 Numbers and the Number System Subitising Continue to practise increasingly familiar subitising arrangements, including those that expose '1 more' or 'doubles' patterns Identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number Subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10 Begin to identify when it is appropriate to count and when groups can be subitised Continue to develop verbal counting to 20 and beyond from different starting numbers Develop accuracy in verbal and object counting Composition Explore the composition of 10 Comparison Order sets of objects, linking this to ordinal numbers
	other set the amounts are equal Measure and Geometry as part of continuous provision • Select, rotate and manipulate shapes to develop spatial reaso • Compose and decompose shapes so that children recognise a • Investigate how shapes can be combined to make • Find 2D shapes within 3D shapes, including throug • Continue, copy and create repeating patterns • Make patterns with varying rules and objects • Compare length, weight and capacity	a shape can have other shapes within it, just as numbers can new shapes	

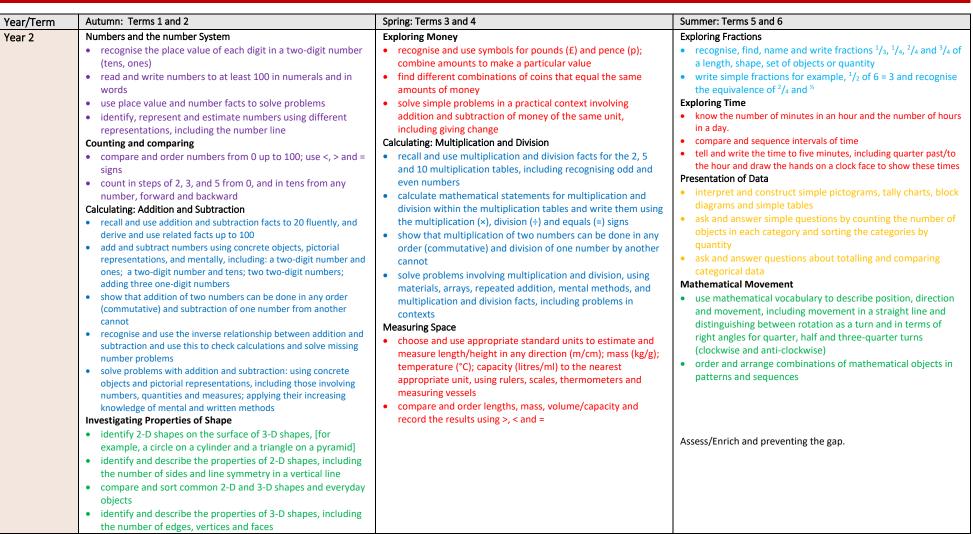




Areas of Mathematics: Number; number: calculation; number: fractions, decimals and percentages; Measure; Geometry; statistics

Year/Term	Autumn: Terms 1 and 2	Spring: Terms 3 and 4	Summer: Terms 5 and 6
Year 1	 Numbers and the Number system (Within 10) read and write numbers from 1 to 10 in numerals and words. identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Calculating: Addition and Subtraction (to 10) given a number, identify one more and one less count to and across 10, forwards and backwards, beginning with 0 or 1, or from any given number represent and use number bonds and related subtraction facts within 10 Visualising and Constructing recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] 	 Numbers and the Number system (Within 20) read and write numbers from 1 to 20 in numerals and words identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Calculating: Addition and Subtraction (to 20) solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9 given a number, identify one more and one less count to and across 20, forwards and backwards, beginning with 0 or 1, or from any given number represent and use number bonds and related subtraction facts within 20 Numbers and the Number system (Within 50) read and write numbers from 1 to 50 in numerals and words. identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least count, read and write numbers to 50 in numerals; count in multiples of twos, fives and tens Calculating: Addition and Subtraction read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs add and subtract one-digit and two-digit numbers to 20, including zero solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9 Measuring Space measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time (hours, minutes, seconds) compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/hall]; mass/weight [for example, heavy/light, heavier than, lig	 Calculating: Multiplication and division 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 Exploring Fractions 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 Mathematical Movement describe position, direction and movement, including whole, half, quarter and three-quarter turns Numbers and the number system (within 100) read and write numbers from 1 to 100 in numerals and words. identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens Exploring Money recognise and know the value of different denominations of coins and notes recognise and know the value of different denominations of coins and notes recognise and use language relating to dates, including days of the week, weeks, months and years sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] tell the time to the hour and half past the hour and draw the hands on a clock face to show these times









Year/Term	Autumn: Terms 1 and 2	Spring: Terms 3 and 4	Summer: Terms 5 and 6
Year 3	 Numbers and the number system recognise the place value of each digit in a three-digit number (hundreds, tens, ones) read and write numbers up to 1000 in numerals and in words identify, represent and estimate numbers using different representations solve number problems and practical problems involving these ideas Counting and comparing compare and order numbers up to 1000 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number solve number problems and practical problems involving these ideas Calculating: Addition and Subtraction add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction recall and use multiplication and Division facts for the 3, 4 and 8 multiplication tables 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 solve problems, including missing number problems, involving multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 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 	 Calculating: Multiplication and Division recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 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 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 Measuring Space measure, compare, add and subtract: lengths (m/cm/mm) measure the perimeter of simple 2-D shapes Exploring Fractions recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators compare and order unit fractions, and fractions with the same denominators measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml) 	 Calculating fractions and decimals 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 add and subtract fractions with the same denominator within one whole [for example, ⁵/₇ + ¹/₇ = ⁶/₇] Exploring Money add and subtract amounts of money to give change, using both £ and p in practical contexts Exploring Time tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks] Investigating Angles 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 Visualising and constructing identify horizontal and vertical lines and pairs of perpendicular and parallel lines draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them presentation of Data interpret and present data using bar charts, pictograms and tables Assess/Enrich and preventing the gap.

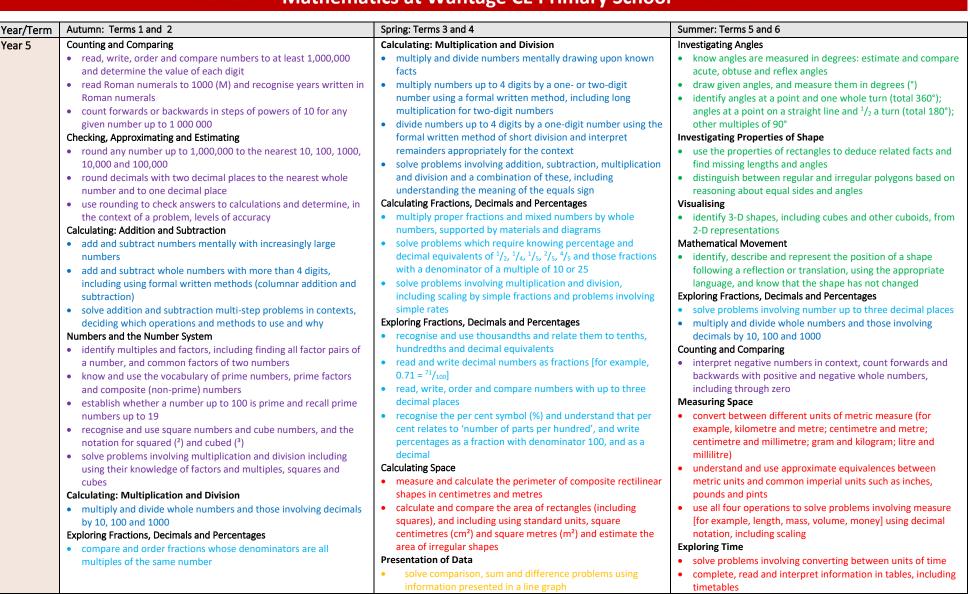




Year/Term	Autumn: Terms 1 and 2	Spring: Terms 3 and 4	Summer: Terms 5 and 6
Year 4	 Numbers and the Number system recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value identify, represent and estimate numbers using different representations Counting and Comparing order and compare numbers beyond 1000 count in multiples of 6, 7, 9, 25 and 1000 count backwards through zero to include negative numbers Checking, approximating and estimating round any number to the nearest 10, 100 or 1000 estimate and use inverse operations to check answers to a calculation solve number and practical problems that involve all of the above and with increasingly large positive numbers Calculating: Addition and Subtraction find 1000 more or less than a given number add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Calculating: Multiplication and Division recal multiplication and Division recognise and use factor pairs and commutativity in mental calculations 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 	 Calculating: Multiplication and Division multiply two-digit and three-digit numbers by a one-digit number using formal written layout 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 Calculating Space measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres convert between different units of measure [for example, kilometre to metre; hour to minute] Calculating Fractions Decimals and Percentages add and subtract fractions with the same denominator solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number recognise and show, using diagrams, families of common equivalent fractions Exploring Fractions, Decimals and Percentages count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths recognise and write decimal equivalents to ¹/₄, ¹/₂, ^{sc} solve simple measure and money problems involving fractions and decimals to two decimal places 	 Exploring Fractions, Decimals and Percentages recognise and write decimal equivalents of any number of tenths or hundredths 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 solve simple measure and money problems involving fractions and decimals to two decimal places Exploring Time and Money 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 estimate, compare and calculate different measures, including money in pounds and pence Investigating Properties of Shape 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 compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Investigating Angles identify acute and obtuse angles and compare and order angles up to two right angles by size Presentation of Data interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs Mathematical Movement describe positions on a 2-D grid as coordinates in the first quadrant plot specified points and draw sides to complete a given polygon describe movements between positions as translations of a given unit to the left/right and up/down



Year 5







 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Calculating Fractions, Decimals and Percentages 	 Calculating space estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using
 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, ²/₅ + ⁴/₅ = ⁶/₅ = 1 ¹/₅] 	water]
 add and subtract fractions with the same denominator and denominators that are multiples of the same number 	Assess/Enrich and preventing the gap.





Year/Term	Autumn: Terms 1 and 2	Spring: Terms 3 and 4	Summer: Terms 5 and 6
Year 6	Numbers and the Number System	Revision of Essential Knowledge	Revision of Essential Knowledge
	identify the value of each digit in numbers given to three	Calculating Fractions, Decimals and Percentages	Visualising and Constructing
	decimal places and multiply and divide numbers by 10, 100	multiply one-digit numbers with up to two decimal places by	 draw 2-D shapes using given dimensions and angles
	and 1000 giving answers up to three decimal places	whole numbers	• recognise, describe and build simple 3-D shapes, including
	• read, write, order and compare numbers up to 1 000 000 and	solve problems involving the calculation of percentages [for	making nets
	determine the value of each digit	example, of measures, and such as 15% of 360] and the use	Investigating Properties of Shape
	use negative numbers in context, and calculate intervals	of percentages for comparison	 compare and classify geometric shapes based on their
	across zero	Proportional Reasoning	properties and sizes and find unknown angles in any
	identify common factors, common multiples and prime	• solve problems involving the relative sizes of two quantities	triangles, quadrilaterals, and regular polygons
	numbers	where missing values can be found by using integer	illustrate and name parts of circles, including radius,
	Checking, Approximating and Estimating	multiplication and division facts	diameter and circumference and know that the diameter is
	• solve problems which require answers to be rounded to	 solve problems involving similar shapes where the scale 	twice the radius
	specified degrees of accuracy	factor is known or can be found	Investigating Angles
	use estimation to check answers to calculations and	 solve problems involving unequal sharing and grouping using langulades of fractions and multiples 	 recognise angles where they meet at a point, are on a straight line, or are viortically encoded and find missing
	determine, in the context of a problem, an appropriate	knowledge of fractions and multiples Algebraic proficiency	straight line, or are vertically opposite, and find missing angles
	 degree of accuracy round any whole number to a required degree of accuracy 	use simple formulae	Mathematical Movement
	Calculating	Patterns	describe positions on the full coordinate grid (all four
	perform mental calculations, including with mixed operations	 generate and describe linear number sequences 	quadrants)
	and large numbers	Solving Equations and Inequalities	 draw and translate simple shapes on the coordinate plane,
	 solve addition and subtraction multi-step problems in 	 enumerate possibilities of combinations of two variables 	and reflect them in the axes
	contexts, deciding which operations and methods to use and	 express missing number problems algebraically 	
	why	 find pairs of numbers that satisfy an equation with two 	Proportional Reasoning
	 multiply multi-digit numbers up to 4 digits by a two-digit 	unknowns	scaling up and down of recipes
	whole number using the formal written method of long	Calculating Space	
	multiplication	• recognise that shapes with the same areas can have different	Calculating
	solve problems involving addition, subtraction and	perimeters and vice versa	Using efficient methods to calculate
	multiplication	calculate the area of parallelograms and triangles	 solve problems involving addition, subtraction and
	• use their knowledge of the order of operations to carry out	calculate, estimate and compare volume of cubes and	multiplication and division
	calculations	cuboids using standard units, including cubic centimetres	Presentation of Data
	Calculating: Division	(cm ³) and cubic metres (m ³), and extending to other units	 interpret and construct line graphs and use these to solve
	divide numbers up to 4 digits by a two-digit whole number	[for example, mm ³ and km ³]	problems
	using the formal written method of long division; interpret	 recognise when it is possible to use formulae for area and 	
	remainders as whole number remainders, fractions, or by	volume of shape	Begin to look at Year 7 place value.
	rounding, as appropriate for the context	 solve problems involving the calculation and conversion of 	• read, write, order and compare numbers up to 1 000 000 000
	• divide numbers up to 4 digits by a two-digit number using the	units of measure, using decimal notation up to three decimal	and determine the value of each digit
	formal written method of short division where appropriate,	places where appropriate	
	interpreting remainders according to the context	Presentation of Data	
	• use written division methods in cases where the answer has	interpret and construct pie charts and line graphs and use	
	up to two decimal places	these to solve problems	
	solve problems involving division		





Exploring Fractions, Decimals and Percentages	Measuring Data	
• use common factors to simplify fractions; use common multiples to express fractions in the same denomination	 calculate and interpret the mean as an average 	
 compare and order fractions, including fractions > 1 		
 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, ³/₈] 		
 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts 		
Calculating Fractions, Decimals and Percentages		
• 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, ¹/₄ × ¹/₂ = ¹/₈] 		
- divide proper fractions by whole numbers [for example, $^{1}\!/_{3}\div 2=^{1}\!/_{6}]$		
Measuring Space		
 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 three decimal places convert between miles and kilometres 		