



Year	Autumn 1 Objectives	Autumn 2 Objectives	Spring 1 Objectives	Spring 2 Objectives	Summer 1 Objectives	Summer 2 Objectives
Nursery	<p>0-3 Yrs Take part in finger rhymes with numbers. React to changes of amount in a group of up to three items. Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.' Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. Compare amounts, saying 'lots', 'more' or 'same'. Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence.</p> <p>3-4 Yrs 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'. Understand position through words alone – for example, "The bag is under the table," –with no pointing. Discuss routes and locations, using words like 'in front of' and 'behind'. Make comparisons between objects relating to size, length, weight and capacity.</p>		<p>0-3 Yrs Combine objects like stacking blocks and cups. Put objects inside others and take them out again. Climb and squeeze themselves into different types of spaces. Build with a range of resources. Complete inset puzzles Notice patterns and arrange things in patterns. Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.'</p> <p>3-4 Yrs Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). Begin to recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. 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.</p>		<p>0-3 Yrs Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. Notice patterns and arrange things in patterns. Extend and create ABAB patterns and may notice errors in patterns. Say one number for each item in order: 1,2,3,4,5.</p> <p>3-4 Yrs Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind' 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...' Recite numbers past 5.</p>	
Reception	<ul style="list-style-type: none"> • Getting to know you (Assessments & Provision, RBA) • Match Sort and Compare Number: Match and sort. Compare amounts • Talk about Measure and Patterns SSM: Compare Size, Mass & Capacity • It's me 1, 2, 3 Number: Representing 1,2,3 Comparing 1,2,3 Composition of 1,2,3 • Circles & triangles. SSM: Positional language • 1,2,3,4,5 Number: Representing numbers 0-5. One more, one less. • Shapes within 4 sides MSS: Shapes with 4 sides. Time 		<ul style="list-style-type: none"> • Alive in 5 Number: Introducing zero. Comparing numbers to 5 Composition of 4 & 5 • Mass and Capacity MSS: Compare mass. Compare capacity • Growing 6,7,8 Number: 6, 7 & 8 Combining two amounts. Making pairs • Length, Height and time MSS: Length & height. Time • Building 9 and 10 Number: Counting to 9 & 10. Comparing numbers to 10 Bonds to 10 • Explore 3D shapes MSS: 3-D shapes. Spatial awareness Patterns 		<ul style="list-style-type: none"> • To 20 and Beyond Number: Build numbers beyond 10 Count patterns beyond 10 • How many now? MSS: Spatial reasoning. Match, rotate, manipulate • Manipulate, compose and decompose Number: Adding more. Taking away MSS: Spatial reasoning. Compose and decompose • Sharing and grouping Number: Sharing & grouping. Even & odd Number: Doubling • Visualise, Build and map MSS: Spatial reasoning. Visualise and build Spatial mapping. Mapping • Make connections Number: Deepening understanding MSS: Patterns & relationships 	
Year 1	<p>Place Value (within 10)</p> <ul style="list-style-type: none"> • Sort objects. • Count objects and represent objects. • Count, read and write forwards from any number 0 to 10. • Count, read and write backwards from any number 0 to 10. • Count one more, count one less. • One to one correspondence to start to compare groups. • Compare groups using language such as equal, more/greater, less/fewer • Introduce < > = symbols. • Compare numbers. • Order groups of objects. • Order numbers. • Ordinal numbers 1st, 2nd, 3rd. • The number line. <p>Addition and subtraction (within 10)</p>		<p>Place Value (within 20)</p> <ul style="list-style-type: none"> • Count objects and represent objects. • Count, read and write forwards from any number 0-20. • Count, read and write backwards from any number 0-20. • Count one more, count one less. • One to one correspondence to start to compare groups. • Compare groups using language such as equal, more/greater, less/fewer • Introduce < > = symbols. • Compare numbers. • Order groups of objects. • Order numbers. • The number line. • Tens and ones. <p>Addition subtraction (within 20)</p> <ul style="list-style-type: none"> • Add by counting on. 		<p>Multiplication and Division</p> <ul style="list-style-type: none"> • Count in 2s, 5s and 10s. • Make equal groups. • Add equal groups. • Make arrays. • Make doubles. • Make equal groups - groupings. • Make equal groups- sharing. <p>Fractions</p> <ul style="list-style-type: none"> • Find a half. • Find a quarter. <p>Position and direction</p> <ul style="list-style-type: none"> • Describe turns. • Describe position. 	

	<ul style="list-style-type: none"> ● Part-whole model. ● Additional symbol. ● Fact families- additional facts. ● Find number bonds for numbers within 10. ● Number bonds to 10. ● Compare number bonds. ● Addition - adding together, adding more. ● Finding a part. ● Subtraction - taking away, how many left? Crossing out, subtraction symbol, finding a part, the 8 facts, counting back. <p>Geometry - Shape</p> <ul style="list-style-type: none"> ● Recognise and name 2D shapes, sort 2D shapes. ● Recognise and name 3D shapes, not 3D shapes. ● Patterns with 3D and 2D shapes. 	<ul style="list-style-type: none"> ● Find and make number bonds. ● Add by making 10. ● Subtraction - not crossing 10. ● Subtraction - crossing 10. ● Related facts. ● Compare number sentences. <p>Place Value (within 50)</p> <ul style="list-style-type: none"> ● Numbers to 50. ● Tens and ones. ● Represent numbers to 50. ● One more, one less. ● Compare objects within 50. ● Compare numbers within 50. ● Order numbers within 50. ● Count in 2s. ● Count in 5s. <p>Length and Height</p> <ul style="list-style-type: none"> ● Compare lengths and heights. ● Measure length. <p>Weight and Volume</p> <ul style="list-style-type: none"> ● Introduce weight and mass. ● Measure mass. ● Compare mass. ● Introduce capacity and volume. ● Measure capacity. ● Compare capacity. 	<p>Place value (within 100)</p> <ul style="list-style-type: none"> ● Counting forwards and backwards within 100. ● Partitioning numbers. ● Comparing numbers. ● Ordering numbers. ● One more, one less. <p>Money</p> <ul style="list-style-type: none"> ● Recognising coins ● Counting coins <p>Time</p> <ul style="list-style-type: none"> ● Before and after ● Dates ● Time to the hour, half hour ● Writing time ● Comparing time 			
Year 2	<p>Place Value</p> <ul style="list-style-type: none"> ● Recap Counting forwards and backwards within 20 ● Recap Tens and ones within 20 ● Recap Counting forwards and backwards within 50 (Numbers to 50) ● Recap Tens and ones within 50 ● Recap Compare numbers within 50 ● Count objects to 100 and read and write numbers in numerals and words ● Represent numbers to 100 ● Tens and ones with a part-whole model ● Tens and ones using addition ● Use a place value chart ● Compare objects ● Compare numbers ● Order objects and numbers ● Count in 2s ● Count in 5s ● Count in 10s ● Count in 3s 	<p>Addition & subtraction</p> <ul style="list-style-type: none"> ● Fact families - addition and subtraction bonds to 20 ● Check calculations ● Compare number sentences ● Know your bonds ● Related facts ● Bonds to 100 (tens) ● Add and subtract 1s ● 10 more and 10 less ● Add and subtract 10s ● Recap Add by making 10 ● Add a 2-digit and 1-digit number - crossing ten ● Recap Subtraction - crossing 10 ● Subtract a 1-digit number from a 2-digit number - crossing ten ● Add two 2-digit numbers - not crossing ten - add ones and add tens ● Add two 2-digit numbers - crossing ten - add ones and add tens ● Subtract a 2-digit number from a 2-digit number - not crossing ten ● Subtract a 2-digit number from a 2-digit number - 	<p>Money</p> <ul style="list-style-type: none"> ● Recognising coins and notes ● Count money - pence ● Count money - pounds (notes and coins) ● Count money - notes and coins ● Select money ● Make the same amount ● Compare money ● Find the total ● Find the difference ● Find change ● Two-step problems <p>Multiplication & division</p> <ul style="list-style-type: none"> ● Recognise equal groups ● Make equal groups ● Add equal groups ● Multiplication sentences using the x symbol ● Multiplication sentences from pictures ● Use arrays ● Recap Make doubles ● 2 times-table ● 5 times-table ● 10 times-table 	<p>Length & height</p> <ul style="list-style-type: none"> ● Recap Compare lengths and heights ● Recap Measure lengths (1) ● Measure length (cm) ● Measure length (m) ● Compare lengths ● Order lengths ● Four operations with lengths ● Problem solving with lengths <p>Mass, Capacity and Temperature</p> <ul style="list-style-type: none"> ● Introduce weight and mass ● Recap Measure mass ● Compare mass ● Measure mass in grams ● Measure mass in kilograms ● Recap Introduce capacity and volume ● Recap Measure capacity ● Compare volume ● Millilitres ● Litres ● Four operations with mass ● Four operations with volume ● Activity Temperature ● Temperature 	<p>Fractions</p> <ul style="list-style-type: none"> ● Make equal parts ● Recognise a half ● Find a half ● Recognise a quarter ● Find a quarter ● Recognise a third ● Find a third ● Unit fractions ● Non-unit fractions ● Equivalence of a half and 2 quarters ● Find three quarters ● Count in fractions ● Problem solving with fractions <p>Time</p> <ul style="list-style-type: none"> ● Telling time to the hour ● O'clock and half past ● Quarter past and quarter to ● Telling time to 5 minutes ● Hours and days ● Find durations of time ● Compare durations of time 	<p>Statistics</p> <ul style="list-style-type: none"> ● Make tally charts ● Make tally charts ● Draw pictograms (1-1) ● Interpret pictograms (1-1) ● Draw pictograms (2, 5 and 10) ● Interpret pictograms (2, 5 and 10) ● Block diagrams <p>Position & direction</p> <ul style="list-style-type: none"> ● Describe position ● Problem solving with position ● Describe movement ● Describing turns ● Describing movement and turns ● Making patterns with shapes

		<p>crossing ten - subtract ones and subtract tens</p> <ul style="list-style-type: none"> Recap Find and make number bonds Bonds to 100 (tens and ones) <p>Properties of shape</p> <ul style="list-style-type: none"> Recognise 2-D and 3-D shapes Activity Make 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry Lines of symmetry - draw the whole Sort 2-D shapes Make patterns with 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 3-D shapes 	<ul style="list-style-type: none"> Recap Make equal groups - sharing Make equal groups - sharing Recap Make equal groups - grouping Make equal groups - grouping Odd and even numbers Divide by 5 Divide by 10 			
Year 3	<p>Number and place Value</p> <ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100 <p>Addition and Subtraction</p> <ul style="list-style-type: none"> 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 	<p>Multiplication and division</p> <ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100 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 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 objectives. 	<p>Number – multiplication and division</p> <ul style="list-style-type: none"> 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 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 objectives. <p>Measurement – length and perimeter</p>	<p>Outcomes Number – fractions Objectives:</p> <ul style="list-style-type: none"> 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 and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Solve problems that involve all of the above. <p>Measurement – mass and capacity</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). 	<p>Number – fractions</p> <ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $57 + 17 = 67$] Solve problems that involve all of the above. <p>Measurement – money</p> <ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts. <p>Measurement – time</p> <ul style="list-style-type: none"> 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. 	<p>Geometry – properties of shape</p> <ul style="list-style-type: none"> 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. Draw 2-D shapes and make 3-D shapes using modelling materials. Recognise 3-D shapes in different orientations <p>Statistics</p> <ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in

	<ul style="list-style-type: none"> 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. 		<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes. 		<ul style="list-style-type: none"> 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]. 	<p>scaled bar charts and pictograms and tables</p>
Year 4	<p>Number: Place Value</p> <ul style="list-style-type: none"> count in multiples of 6, 7, 9, 25 and 1,000 find 1,000 more or less than a given number count backwards through 0 to include negative numbers recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s) order and compare numbers beyond 1,000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1,000 solve number and practical problems that involve all of the above and with increasingly large positive numbers read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value <p>Number: Addition and Subtraction</p> <ul style="list-style-type: none"> add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why <p>Measure: Area</p> <ul style="list-style-type: none"> find the area of rectilinear shapes by counting squares <p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> 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 		<p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> 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 3 numbers recognise and use factor pairs and commutativity in mental calculations 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 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects <p>Measurement: Length and Perimeter</p> <ul style="list-style-type: none"> convert between different units of measure [for example, kilometre to metre; hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <p>Number: Fractions and Decimals</p> <ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10 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 add and subtract fractions with the same denominator recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ 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 		<p>Decimals</p> <ul style="list-style-type: none"> round decimals with 1 decimal place to the nearest whole number compare numbers with the same number of decimal places up to 2 decimal places solve simple measure and money problems involving fractions and decimals to 2 decimal places <p>Measurement: Money and Time :</p> <ul style="list-style-type: none"> estimate, compare and calculate different measures, including money in pounds and pence 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 <p>Geometry: Properties of Shape</p> <ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify acute and obtuse angles and compare and order angles up to 2 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 <p>Statistics</p> <ul style="list-style-type: none"> 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 <p>Geometry: Position and Direction</p> <ul style="list-style-type: none"> 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 	
Year 5	<p>Place value</p> <ul style="list-style-type: none"> read, write, order and compare numbers to at least 1 000 000 Determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including 		<p>Multiplication and division (Part B) (refer to multiplication and division)</p> <p>Fractions (Part B)</p> <ul style="list-style-type: none"> multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 		<p>Properties of shape</p> <ul style="list-style-type: none"> identify 3-D shapes, including cubes and other cuboids, from 2-D representations know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles 	

	<p>through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <ul style="list-style-type: none"> Solve number problems and practical problems that involve all of the above read Roman numerals to 1000 (M) and recognise years written in Roman numerals. <p>Addition and subtraction</p> <ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) subtract numbers mentally with increasingly large numbers use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. <p>Multiplication and division (Part A)</p> <ul style="list-style-type: none"> 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 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 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. <p>Fractions (Part A)</p> <ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number 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, $5 \frac{2}{4} = 5 \frac{1}{2} = 1 \frac{1}{2}$] add and subtract fractions with the same denominator and denominators that are multiples of the same number 	<ul style="list-style-type: none"> read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] <p>Decimals and percentages</p> <ul style="list-style-type: none"> 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 solve problems involving number up to three 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 $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{4}$ and those fractions with a denominator of a multiple of 10 or 25. <p>Perimeter and area</p> <ul style="list-style-type: none"> convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints 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 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] solve problems involving converting between units of time use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. <p>Statistics</p> <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables. 	<ul style="list-style-type: none"> draw given angles, and measure them in degrees (o) identify: angles at a point and one whole turn (total 360o) angles at a point on a straight line and 2 1 a turn (total 180o) other multiples of 90o use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles. <p>Position and direction</p> <ul style="list-style-type: none"> 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>Decimals</p> <ul style="list-style-type: none"> Use known facts to add and subtract decimals within Complements to 1 Add and subtract decimals across 1 Add decimals with the same number of decimal places Subtract decimals with the same number of decimal places Add decimals with different numbers of decimal places Subtract decimals with different numbers of decimal places Efficient strategies for adding and subtracting decimals Decimal sequences Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply and divide decimals – missing values <p>Measurement- Converting units</p> <ul style="list-style-type: none"> Kilograms and kilometres Millimetres and millilitres Convert units of length Convert between metric and imperial units Convert units of time Calculate with timetables <p>Negative Numbers</p> <ul style="list-style-type: none"> Understand negative numbers Count through zero in 1s Count through zero in multiples Compare and order negative numbers Find the difference <p>Measurement- Volume</p> <ul style="list-style-type: none"> Cubic centimetres Compare volume Estimate volume Estimate capacity 			
Year 6	<p>Place value</p> <ul style="list-style-type: none"> Numbers to 10,000 Numbers to 100,000 Numbers to 1 million Numbers to ten million Compare and Order any number 	<p>Fractions</p> <ul style="list-style-type: none"> Equivalent fractions Mixed fractions Improper fractions to mixed fractions mixed numbers to improper fractions 	<p>Ratio and scaling</p> <ul style="list-style-type: none"> Using ratio language ratio and fractions ratio symbol calculating ratio using scale factors calculating scale factors 	<p>Perimeter, area and volume</p> <ul style="list-style-type: none"> Perimeter of shapes perimeter and area area of a triangle area of a parallelogram Volume volume of a cuboid 	<p>Properties of Shape</p> <ul style="list-style-type: none"> Measure with a protractor draw lines and angles accurately angles on a straight line angles around a point 	<p>Themed Projects, Consolidation & problem solving</p>

	<ul style="list-style-type: none"> ● Round number to 10, 100 and 1000 ● Round any number ● Negative numbers <p>Four operations</p> <ul style="list-style-type: none"> ● Add whole numbers with more than 4 digits. ● Subtract whole numbers with more than 4 digits ● Inverse operations ● Multi Step addition and subtraction problems ● Addition and subtraction Integers ● Multiply 4 digits by 1 digit ● Multiply 2 digits by 2 digits ● Multiply 3 digits by 2 digits ● Multiply 4 digits by 2 digits ● Divide 4 digits by 1 digit ● Divide with remainders ● Short division ● Division using factors ● Long division ● common factors/ factors ● Common multiples ● Prime numbers ● Squared and cubed numbers ● order of operations ● Mental calculations & estimations. 	<ul style="list-style-type: none"> ● compare and order fractions (including on a numberline) ● add and subtract fractions ● add and subtract mixed numbers ● multiply fractions by integers ● four rules with fractions ● fractions of an amount <p>Measurement- Converting Units</p> <ul style="list-style-type: none"> ● Metric measures ● Convert metric measures ● Calculate with metric measures ● Miles and kilometres ● Imperial measures 	<ul style="list-style-type: none"> ● ratio and proportion problems. <p>Algebra</p> <ul style="list-style-type: none"> ● Find a rule of Algebra- one step. ● Find a rule of Algebra- two step. ● forming expressions ● substitution ● formulae ● forming equations ● solve simple one and two step problems ● find pairs of values ● Enumerate possibilities <p>Fractions, decimals and percentages</p> <ul style="list-style-type: none"> ● Decimals up to 2 decimal places ● to understand thousandths ● multiply by 10, 100 & 1000 ● divide by 10, 100 & 1000 ● multiply decimals by integers ● divide decimals by integers ● use division to solve problems ● decimals as fractions ● fractions to decimals ● Understand percentages ● fractions to percentages ● equivalent fractions, decimals and percentages ● order of FDP ● percentage of an amount ● percentages- missing values 	<p>Statistics</p> <ul style="list-style-type: none"> ● Read and interpret line graphs ● draw line graphs ● use line graphs to solve problems ● circles ● read and interpret pie charts ● pie charts with percentages ● draw pie charts ● calculate the Mean 	<ul style="list-style-type: none"> ● calculate angles ● vertically opposite angles ● angles in a triangle ● angles in special quadrilaterals ● angles in regular polygons ● draw shape accurately ● draw 3D nets of shapes <p>Geometry- position and direction</p> <ul style="list-style-type: none"> ● The first quadrant ● four quadrants ● translations ● reflections 	
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