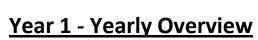
### Whole School Curriculum Overview

This is an overview of the areas of Mathematics that each year group studies. We try to cover each area of the curriculum at least twice across the year. On the following pages there is an overview of when we cover each area of the Maths Curriculum within each year group and a break-down of the curriculum objectives for each year group. These plans are guidelines for teachers – the weeks may change slightly depending on school events, such as assemblies and performances, and will depend upon the pace of children's learning within a class or Maths group.

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Place Value	Number: Place Value	Number: Place Value	Number: Place Value	Number: Place Value	Number: Place Value
Number: Addition and Subtraction	Number: Addition and Subtraction	Number: Addition and Subtraction	Number: Addition and Subtraction	Number: Addition and Subtraction	Number: Addition and Subtraction
Number: Fractions	Number: Fractions	Number: Fractions	Number: Fractions, Decimals	Number: Fractions, Decimals & percentages	Number: Fractions, Decimals & percentages
Number: Multiplication and Division	Number: Multiplication and Division	Number: Multiplication and Division	Number: Multiplication and Division	Number: Multiplication and Division	Number: Multiplication and Division
					Number: Ratio Number: Algebra
Measurement (including time & money)  Geometry: shape	Measurement (including time & money)  Geometry: shape	Measurement (including time, money & perimeter)  Geometry: shape	Measurement (including time, money, area & perimeter)  Geometry: shape	Measurement (including area, perimeter, volume & converting units) Geometry: shape	Measurement (including area, perimeter, volume & converting units) Geometry: shape
, ,	, ,		, .	, ,	, .
Geometry: position & direction	Geometry: position & direction		Geometry: position & direction	Geometry: position & direction	Geometry: position & direction
	Statistics	Statistics	Statistics	Statistics	Statistics





		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
V. 1+11A	Adrailli	Number: P (within 10)	Place Value )	Number: A and Subtra (within 10)	Measurement: Length and Height Geometry: Shape		(within 20)				ractions	Measurement: Time	Consolidation
S. Z.	20 	Number: A and Subtra (within 20)	action	Number: P (within 50)		Measurement: Money	Geometry: Shape	Number: Addition and Subtraction		Number: Fractions	Measurem Weight and		Consolidation
Clamacr	מווווער	Number: N Division	Number: Multiplication and Division		Number: Fractions	Measurement: Time	Geometry: position and direction	Number: p (within 100		Number: consolidation and investigations	Measurement: Money	Measurement consolidation	Consolidation

## **Year 1 NC Objectives**



Number and Place value	Addition and subtraction	Multiplication and division
<ul> <li>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>given a number, identify one more and one less</li> </ul>	<ul> <li>read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs</li> <li>represent and use number bonds and related subtraction facts within 20</li> <li>add and subtract one-digit and two-digit numbers</li> </ul>	- 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
- identify and represent numbers using objects and	to 20, including zero	Fractions
pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least - read and write numbers from 1 to 20 in numerals and words	<ul> <li>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9</li> </ul>	<ul> <li>recognise, find and name a half as one of two equal parts of an object, shape or quantity</li> <li>recognise, find and name a quarter as one of four equal parts of an object, shape or quantity</li> </ul>
Measurement		Geometry – properties of shapes
<ul> <li>compare, describe and solve practical problems for:         <ul> <li>lengths and heights [for example, long/short, longe</li> <li>mass/weight [for example, heavy/light, heavier tha</li> <li>capacity and volume [for example, full/empty, mor</li> <li>time [for example, quicker, slower, earlier, later]</li> <li>measure and begin to record the following:</li> <li>lengths and heights</li> </ul> </li> </ul>	n, lighter than]	<ul> <li>recognise and name common 2-D and 3-D shapes, including:</li> <li>2-D shapes [for example, rectangles (including squares), circles and triangles]</li> <li>3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</li> <li>Geometry – position and direction</li> </ul>
o mass/weight		, ,
<ul> <li>capacity and volume</li> <li>time (hours, minutes, seconds)</li> <li>recognise and know the value of different denomina</li> <li>sequence events in chronological order using language yesterday, tomorrow, morning, afternoon and evening</li> <li>recognise and use language relating to dates, including</li> <li>tell the time to the hour and half past the hour and description</li> </ul>	ge [for example, before and after, next, first, today, ng] ng days of the week, weeks, months and years	- describe position, direction and movement, including whole, half, quarter and three quarter turns





	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: F	Place Value	Number: A and Subtra			Geometry: Properties of shape	Number: Place Value	Number: F	ractions	Measurement: Money	Measurement: Time	Consolidation
Spring	Number: A and Subtra		Geometry: of shape	Properties	Statistics	Measurement: Money	Number: Multiplicat Division	ion and	Measurement: Length and Height	Measurement: Mass, Capacity & Temperature	Geometry: position and direction	Consolidation
Summer	Number: Multiplicat Division	tion and	Number: Fractions	Measurement: Time	Statistics	Geometry: position and direction	Measurement: Mass, Capacity & Temperature	Consolidation of measure	Problem solving	Investigation	ons	Consolidation

## **Year 2 NC Objectives**



Nui	mber and Place value
-	count in steps of 2, 3, and 5 from 0, and in tens from
	any number, forward and backward
-	recognise the place value of each digit in a two-digit
	number (tens, ones)
	identific necessary and estimate acceptant and

- identify, represent and estimate numbers using different representations, including the number line
- compare and order numbers from 0 up to 100; use <, > and = signs
- read and write numbers to at least 100 in numerals and in words
- use place value and number facts to solve problems

### **Statistics**

- interpret and construct simple pictograms, tally charts, block diagrams and simple tables
- 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

#### Addition and subtraction

- 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
- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
- o a two-digit number and ones
- a two-digit number and tens
- o two two-digit numbers
- o adding three one-digit numbers
- show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems

### Multiplication and division

- recall and use multiplication and division facts for the 2,
   5 and 10 multiplication tables, including recognising odd and even numbers
- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
- show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

### **Fractions**

- recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity
- write simple fractions for example,  $\frac{1}{2}$  of 6 = 3 and recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

#### Measurement

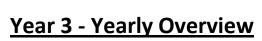
- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- compare and order lengths, mass, volume/capacity and record the results using >, <</li>
   and =
- recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
- find different combinations of coins that equal the same amounts of money
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- compare and sequence intervals of time
- tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- know the number of minutes in an hour and the number of hours in a day

### Geometry – properties of shapes

- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects

### Geometry - position and direction

- order and arrange combinations of mathematical objects in patterns and sequences
- use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)





	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: P	lace Value	Number: A Subtraction	ddition and		Shapes. Shapes. Properties of			Number: Multiplication and Division		Measurement: Time	Consolidation
Spring	Number: Place Value	Number: A and Subtra		Measurement: Money	Number: Multiplica Division	ation and	Number: Fractions		Statistics and Capac		ent: Mass ty	Consolidation
Summer	Number: Multiplicat Division	ion and	Number: Fi	ractions		Measurem	ent: Time	Geometry: properties of shapes	Statistics	Measurem Capacity, L Perimeter.		Consolidation





Number and Place value	Addition and subtraction	Multiplication and division
<ul> <li>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li> <li>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li> <li>compare and order numbers up to 1000</li> <li>identify, represent and estimate numbers using different representations</li> <li>read and write numbers up to 1000 in numerals and in words</li> <li>solve number problems and practical problems involving these ideas</li> <li>Statistics</li> <li>interpret and present data using bar charts,</li> </ul>	<ul> <li>add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> <li>estimate the answer to a calculation and use inverse operations to check answers</li> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition</li> </ul>	<ul> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>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</li> <li>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</li> <li>Fractions</li> <li>count up and down in tenths; recognise that tenths arise from dividing an</li> </ul>
pictograms and tables - solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables  Measurement	and subtraction	<ul> <li>object into 10 equal parts and in dividing one-digit numbers or quantities by 10</li> <li>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li> </ul>
<ul> <li>measure, compare, add and subtract: lengths (m/cm/</li> <li>measure the perimeter of simple 2-D shapes</li> <li>add and subtract amounts of money to give change, u</li> <li>tell and write the time from an analogue clock, includ hour and 24-hour clocks</li> <li>estimate and read time with increasing accuracy to the terms of seconds, minutes and hours; use vocabulary noon and midnight</li> </ul>	using both £ and p in practical contexts ing using Roman numerals from I to XII, and 12- ne nearest minute; record and compare time in	<ul> <li>recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]</li> <li>compare and order unit fractions, and fractions with the same denominators</li> <li>solve problems that involve all of the above</li> <li>Geometry – properties of shapes</li> </ul>
<ul> <li>know the number of seconds in a minute and the number compare durations of events [for example to calculate</li> </ul>		<ul> <li>draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>recognise angles as a property of shape or a description of a turn</li> <li>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</li> <li>identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li> </ul>



# **Year 4 - Yearly Overview**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Plac	Subtraction					Measurement: Length and Division  Division					Consolidation
Spring	Number: Place Value	Number: Multiplicat Division	cion and	Measurement: Area	Number: F	ractions		Statistics	Statistics		Measurement: Money	Consolidation
Summer	Number: Mul and Division	tiplication	Number: Fractions	Number: D	ecimals		Measurement: Money	Geometry: of shapes	properties	Geometry: Position & Direction	Statistics	Consolidation

## **Year 4 NC Objectives**



Number and Place value	Multiplication and division		Fractions				
<ul> <li>count in multiples of 6, 7, 9, 25 and 1000</li> <li>find 1000 more or less than a given number</li> <li>count backwards through zero to include negative numbers</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> <li>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</li> </ul>	<ul> <li>recall multiplication and d tables up to 12 × 12</li> <li>use place value, known an and divide mentally, including by 1; multiplying the recognise and use factor part mental calculations</li> <li>multiply two-digit and three digit number using formal</li> <li>solve problems involving the distrib numbers by one digit, into harder correspondence preconnected to mobjects</li> <li>Statistics</li> <li>interpret and present discussing appropriate graphic charts and time graphs</li> <li>solve comparison, sum an</li> </ul>	ee-digit numbers by a one- written layout multiplying and adding, utive law to multiply two digit eger scaling problems and roblems such as n objects are	<ul> <li>recognise and show, using diagrams, families of common equivalent fractions</li> <li>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</li> <li>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</li> <li>add and subtract fractions with the same denominator</li> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and write decimal equivalents to ¼, ½, ¾</li> <li>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</li> <li>round decimals with one decimal place to the nearest whole number</li> <li>compare numbers with the same number of decimal places up to two decimal places</li> <li>solve simple measure and money problems involving fractions and decimals to two decimal places</li> </ul>				
- Measurement		Geometry – properties of shapes					
<ul> <li>Convert between different units of measure [for example, I minute]</li> <li>measure and calculate the perimeter of a rectilinear figure centimetres and metres</li> <li>find the area of rectilinear shapes by counting squares</li> <li>estimate, compare and calculate different measures, include pence</li> <li>read, write and convert time between analogue and digital</li> <li>solve problems involving converting from hours to minutes to months; weeks to days</li> </ul>	e (including squares) in ding money in pounds and I 12- and 24-hour clocks	Geometry – properties of shapes  - 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 two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations  - complete a simple symmetric figure with respect to a specific line of symmetry  Geometry – position and direction  - 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 - Yearly Overview**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: P	lace Value		Number: Addition and Subtraction		Statistics	Number: Multiplication and Division		Geometry: properties of shapes		Measurement: Perimeter and Area	Consolidation
Spring	Number: Multiplication and Division  Measurement: Converting Units					Number: Fractions			Number: D and Percer		Geometry: Position & Direction	Consolidation
Summer	Number: F	ractions, De	cimals and P	Percentages		Statistics	Measures : Volume	Geometry of shapes	properties	Measurement: Perimeter and Area	Consolidation	Consolidation

## **Year 5 NC Objectives**



Number and Place value	Multiplication and division	Fractions
	•	
<ul> <li>read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</li> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</li> <li>round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</li> <li>solve number problems and practical problems that involve all of the above</li> <li>read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</li> <li>Addition and subtraction</li> <li>add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> <li>add and subtract numbers mentally with increasingly large numbers</li> <li>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>Statistics</li> <li>solve comparison, sum and difference problems using information presented in a line graph</li> <li>complete, read and interpret information in tables, including timetables</li> </ul>	<ul> <li>identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</li> <li>know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers</li> <li>establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>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</li> <li>multiply and divide numbers mentally drawing upon known facts</li> <li>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</li> <li>multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li> <li>recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</li> <li>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li> <li>solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> <li>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>	<ul> <li>compare and order fractions whose denominators are all multiples of the same number</li> <li>identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]</li> <li>add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> <li>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> <li>read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li> <li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> <li>round decimals with two decimal places to the nearest whole number and to one decimal place</li> <li>read, write, order and compare numbers with up to three decimal places</li> <li>solve problems involving number up to three decimal places</li> <li>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</li> <li>solve problems which require knowing percentage and decimal equivalents of ½ ¼</li> <li>1/5, 2/5, 4/5 and those fractions with a denominator of a</li> </ul>
Measurement		multiple of 10 or 25.  Geometry – properties of shapes
<ul> <li>convert between different units of metric measure (for example millimetre; gram and kilogram; litre and millilitre)</li> <li>understand and use approximate equivalences between metric</li> <li>measure and calculate the perimeter of composite rectilinear sl</li> <li>calculate and compare the area of rectangles (including squares square metres (m2) and estimate the area of irregular shapes</li> <li>estimate volume [for example, using 1 cm3 blocks to build cubo solve problems involving converting between units of time</li> </ul>	units and common imperial units such as inches, pounds and pints napes in centimetres and metres s), and including using standard units, square centimetres (cm2) and	<ul> <li>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>draw given angles, and measure them in degrees (o)</li> <li>identify: angles at a point and one whole turn (total 360o); angles at a point on a straight line and ½ a turn (total 180o); other multiples of 90o</li> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> </ul>



## **Year 6 - Yearly Overview**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		
Autumn	Number: Place Value Number: Addition, Sub Multiplication & Division					Measurement: Perimeter, Area and Volume	Percentages			The state of the s			Statistics	Consolidation
Spring	Number: F Decimals & Percentage	k	Number: Ra	atio	Measurement: converting units	Measurement: Perimeter, Area and Volume	Geometry: Position & Direction			Geometry: properties of shapes	Statistics	Consolidation		
Summer	Number: A Subtraction Multiplicat Division	n,	SATs revision	on	Problem so	blving		Investigation	ons			Consolidation		





Number and Place value	The Four operations	Fractions
<ul> <li>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> <li>round any whole number to a required degree of accuracy</li> <li>use negative numbers in context, and calculate intervals across zero</li> <li>solve number and practical problems that involve all of the above</li> </ul> Ratio and Proportion <ul> <li>solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> <li>solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</li> <li>solve problems involving similar shapes where the scale factor is known or can be found</li> <li>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ul> Algebra	<ul> <li>multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using formal written method of long division, and interpret remaind whole number remainders, fractions, or by rounding, as approfor the context</li> <li>divide numbers up to 4 digits by a two-digit number using the written method of short division where appropriate, interpreti remainders according to the context</li> <li>perform mental calculations, including with mixed operations large numbers</li> <li>identify common factors, common multiples and prime number use their knowledge of the order of operations to carry out calculations involving the four operations</li> <li>solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why</li> <li>solve problems involving addition, subtraction, multiplication a division</li> <li>use estimation to check answers to calculations and determine context of a problem, an appropriate degree of accuracy</li> </ul>	express fractions in the same denomination  compare and order fractions, including fractions > 1  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, ¼ × ½ = 1/8]  divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]  associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]  associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]  identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places  multiply one-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
<ul> <li>use simple formulae</li> <li>generate and describe linear number sequences</li> <li>express missing number problems algebraically</li> <li>find pairs of numbers that satisfy an equation with two unknowns</li> <li>enumerate possibilities of combinations of two variables</li> </ul>		Statistics  - interpret and construct pie charts and line graphs and use these to solve problems  - calculate and interpret the mean as an average
Measurement	Geometry – properties of sh	•
<ul> <li>solve problems involving the calculation and conversion of units of meanthree decimal places where appropriate</li> <li>use, read, write and convert between standard units, converting measu time from a smaller unit of measure to a larger unit, and vice versa, usin decimal places</li> <li>convert between miles and kilometres</li> <li>recognise that shapes with the same areas can have different perimeter</li> <li>recognise when it is possible to use formulae for area and volume of shapes are calculated the area of parallelograms and triangles</li> <li>calculate, estimate and compare volume of cubes and cuboids using state centimetres (cm3) and cubic metres (m3), and extending to other units</li> </ul>	- draw 2-D shapes using - recognise, describe and - compare and classify g - triangles, quadrilateral - illustrate and name par - diameter is twice the recognise angles where - recognise angles where - recognise angles where - missing angles  Geometry – position and diameter is twice the recognise angles where - missing angles  Geometry – position and diameter is twice the recognise angles where - missing angles  Geometry – position and diameter is twice the recognise angles where - missing angles  Geometry – position and diameter is twice the recognise angles where - missing angles  Geometry – position and diameter is twice the recognise angles where - missing angles  Geometry – position and diameter is twice the recognise, describe and recognise and re	given dimensions and angles debuild simple 3-D shapes, including making nets eometric shapes based on their properties and sizes and find unknown angles in any s, and regular polygons ts of circles, including radius, diameter and circumference and know that the adius e they meet at a point, are on a straight line, or are vertically opposite, and find