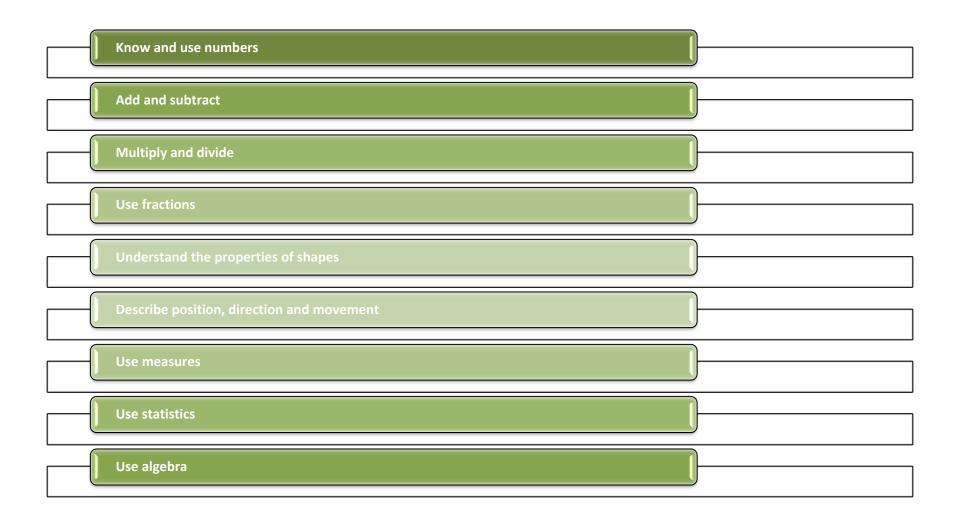
Threshold Concepts -





Standard 1 Assessment Criteria



	Standard 1 Emerging	Standard 1 Secure	Standard 1 Advanced						
Statements	7	14	22 (including all						
Required			bold criteria)						
Criteria in bold must be achieved before Advanced level can be									

Criteria in bold must be achieved before Adva	nced l	evel c	an be	2		
awarded.						
Know and Use Number ross 100, forwards and backwards, beginning with 0 or 1, or from T. I write numbers to 100 in numerals; count in multiples of twos, identify one more and one less.						
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.						
umbers from 1 to 20 in numerals and words.						
				-		
sterpret mathematical statements involving addition $(+)$, subtraction (-gns.						
one-digit and two-digit numbers to 20, including zero.						
roblems that involve addition and subtraction, using concrete objects esentations, and missing number problems such as 7 = 🛭 - 9.						
Multiply and Divide						
roblems involving multiplication and division, by calculating the answer ojects, pictorial representations and arrays with the support of the						
				_		
Use Fractions						
and name a half as one of two equal parts of an object, shape or						
nd name a quarter as one of four equal parts of an object, shape or						
	Chow and Use Number The second of the s	Know and Use Number ross 100, forwards and backwards, beginning with 0 or 1, or from the write numbers to 100 in numerals; count in multiples of twos, identify one more and one less. resent numbers using objects and pictorial representations including and use the language of: equal to, more than, less than (fewer), most, umbers from 1 to 20 in numerals and words. Add and Subtract is number bonds and related subtraction facts within 20, interpret mathematical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical statements involving addition (*), subtraction (*- proper than the matical stat	Add and Subtract is number bonds and related subtraction focts within 20. Interpret mathematical statements involving addition (+), subtraction (- grad, and involving multiplication and subtraction, using concrete objects Multiply and Divide Multiply and Divide Wes Fractions and name a half as one of two equal parts of an object, shope or	**Chow and Use Number** **Toss 100, forwards and backwards, beginning with 0 or 1, or from the write numbers to 100 in numerals; count in multiples of twos, identify one more and one less. **Tossent numbers using objects and pictorial representations including and use the language of: equal to, more than, less than (fewer), most, umbers from 1 to 20 in numerals and words. **Add and Subtract** **Is number bonds and related subtraction facts within 20, an an analysis of the subtraction (- proceedings) and two-digit numbers to 20, including zero. **Toblems that involve addition and subtraction, using concrete objects esentations, and missing number problems such as 7 = 0 - 9. **Multiply and Divide** **Toblems involving multiplication and division, by calculating the answer objects, pictorial representations and arrays with the support of the subjects, pictorial representations and arrays with the support of the subjects, pictorial representations and arrays with the support of the subjects, shape or subjects.	Know and Use Number Constitution Constitutio	**Enow and Use Number** **ross 100, forwards and backwards, beginning with 0 or 1, or from the write numbers to 100 in numerals; count in multiples of twos, identify one more and one less. **resent numbers using objects and pictorial representations including and use the language of: equal 10, more than, less than (fewer), most, umbers from 1 to 20 in numerals and words. **Add and Subtract** **is number bonds and related subtraction facts within 20, and the subtraction of the subtraction, using concrete objects of the subtraction, and missing number problems such as 7 = 0 - 9. **Multiply and Divide** **Wultiply and Divide**

	Use Measures			
Compare, de	scribe and solve practical problems for:			
	ngths and heights [for example, long/short, longer/shorter, tall/short, uble/half];			
• mo	ass/weight [for example, heavy/light, heavier than, lighter than];			
• ca	pacity and volume [for example, full/empty, more than, less than, half, half			
fu	ll, quarter];			
• tir	ne [for example, quicker, slower, earlier, later].			
Tell the tin	ne to the hour and half past the hour and draw the hands on a clock			
face to sho	w these times.			
Measure and	d begin to record the following:			
 Le 	ngth and heights			
• Mo	ass/weight			
• Ca	pacity and volume			
• tir	ne (hours, minutes, seconds).			
Recognise a	nd know the value of different denominations of coins and notes.			
	vents in chronological order using language [for example, before and after, today, yesterday, tomorrow, morning, afternoon and evening].			
Recognise ai	nd use language relating to dates, including days of the week, weeks, months			

	Understand Properties of Shape			
Recognis	ise 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]			

Describe Position, Direction and Movement			
Describe position, direction and movement, including whole, half, quarter and three-			
quarter turns,			



Standard 2 Assessment Criteria



	Standard 2 Emerging	Standard 2 Secure	Standard 2 Advanced						
Statements Required	11	23	34 (including all bold criteria)						
Chitagia in hold must be achieved before Advanced level can be									

Criteria in bold must be achieved before Advanced level can be awarded.

// / / Al /		1 1	1		-	1	
Know and Use Number							
Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.							
Compare and order numbers from 0 up to 100; use <, > and = signs.							
Use place value and number facts to solve problems.							
Recognise the place value of each digit in a two-digit number (tens, ones).							
Identify, represent and estimate numbers using different representations, including the number line.							
Read and write numbers to at least 100 in numerals and in words,							
	ll						
Add and Subtract							
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 fluently up to 20.							
Recall and use addition and subtraction facts - related facts up to 100.							
Add and subtract numbers using concrete objects, pictorial representations, and							
mentally, including:							
 a two-digit number and ones; 							
a two-digit number and tens;							
two two-digit numbers;							
adding three one-digit numbers	<u> </u>						
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					t		
this to check calculations and solve missing number problems.							
Multiply and Divide							
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication							
tables, including recognising odd and even numbers.							
Solve problems involving multiplication and division, using materials, arrays,							
repeated addition, mental methods, and multiplication and division facts, including							
problems in contexts. Calculate mathematical statements for multiplication and division within the	 	!	\vdash		+		
multiplication tables and write them using the multiplication (x), division (÷) and equals	1 1						
(=) signs.					l		
Show that multiplication of two numbers can be done in any order (commutative) and		1	\vdash		t		
division of one number by another cannot.							
		_	_		_		

Use 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.				ĺ
Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4				ı —
and 1/2.				i i

Use Measures				
Solve simple problems in a practical context involving addition and subtraction of				
money of the same unit, including giving change.				
Choose and use appropriate standard units to estimate and measure to the nearest				
appropriate unit, using rulers, scales, thermometers and measuring vessels:				
 length/height in any direction; 				
• mass;				
temperature;				
capacity				
Compare and order lengths, mass, volume/capacity and record the results using \gt , \lt and \equiv				
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.				
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 number of hours in a day.				
Understand Properties of Shape				
Identify and describe properties of 2D shapes, including the number of sides and				
line of symmetry in a vertical line.				
Identify and describe the properties of 3D shapes, including the number of faces,				
edges and vertices.				
Identify 2D shapes on the surface of 3D shapes.				

Describe Position, Direction and Movement				
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 anti-clockwise).				
Order and arrange combinations of mathematical objects in patterns and sequences.				

Compare and sort common 2D and 3D shapes and everyday objects.

Use Statistics				
Ask and answer questions about totalling and comparing categorical data.				
Ask and answer simple questions by counting the number of objects in each category				
and sorting the categories by quantity.				1
Interpret and construct simple pictograms, tally charts, block diagrams and simple				
tables				I



Standard 3 Assessment Criteria



	Standard 3	Standard 3	Standard 3
	Emerging	Secure	Advanced
Statements Required	11	23	34 (including all bold criteria)

Criteria in bold must be achieved before Advanced level can be awarded.

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Know and Use Number						
Count from 0 in multiples of 4, 8, 50 and 100; 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).					ì	
Solve number problems and practical problems involving these ideas.						
Compare and order numbers up to 1000.						
Identify, represent and estimate numbers using different representations.						
Read and write numbers up to 1000 in numerals and in words.						
	1 1					
Add and Subtract						
Add and subtract numbers mentally, including:						
a three-digit number and ones;						
 a three-digit number and tens; 						
a three-digit number and hundreds.						
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.						
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.						
				_		_
<u>Multiply and Divide</u>						
Recall and use multiplication and division facts for the multiplication tables - 3, 4 and 8.						
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.						
objects are connected to mobjects.						
Use Fractions						
Count up and down in tenths; recognise that tenths arise from dividing an object						
into 10 equal parts and in dividing one-digit numbers or quantities by 10.						
Recognise, find and write fractions of a discrete set of objects: unit fractions and						
non-unit fractions with small denominators.						
Recognise and show, using diagrams, equivalent fractions with small denominators.						
Recognise and use fractions as numbers: unit fractions (numerator of 1) and non-unit						
fractions with small denominators.						
Add and subtract fractions with the same denominator within one whole [for example, $5/7 + 1/7 = 6/7$],						
Compare and order unit fractions, and fractions with the same denominators.						
Solve problems that involve all of the above.				-		
Corre problems that involve an of the above,						

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Use Measures							
Measure, compare, add and subtract:							
 lengths (m/cm/mm); 							
 mass (kg/g); 							
volume/capacity (I/ml).							
Add and subtract amounts of money to give change, using both £ and p in practical							
contexts.							
Tell and write the time from an analogue clock and 12-hour and 24-hour clocks							
Measure the perimeter of simple 2-D shapes.							
Tell and write the time from an analogue clock, including using Roman numerals from I							
to XII and 12 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],							

Understand Properties of Shape				
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.				
Draw 2-D shapes and make 3-D shapes using modelling materials.				
Recognise 3-D shapes in different orientations and describe them.				
Recognise angles as a property of shape or a description of a turn.				
Identify horizontal and vertical lines and pairs of perpendicular and parallel lines,				

Use Statistics				
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 scaled bar charts and pictograms and tables.				l



Standard 4 Assessment Criteria



	Standard 4 Emerging	Standard 4 Secure	Standard 4 Advanced
Statements	12	23	34 (including all bold criteria)
Required			bold criteria)

Criteria in bold must be achieved before Advanced level can be awarded.

Know and Use Number	1	1		
Count in multiples of 6, 7, 9, 25 and 1000.	1			
	1			
Count backwards through zero to include negative numbers.				
Order and compare numbers beyond 1000.				
Round any number to the nearest 10, 100 or 1000.				
Find 1000 more or less than a given number.				
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).				
Identify, represent and estimate numbers using different representations.				
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 zero and place value.				
<u>Add and Subtract</u>				
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.				
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,				
Multiply and Divide				
Recall multiplication and division facts for multiplication tables up to $12 imes 12$.				
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 one digit, integer scaling problems and harder correspondence problems such as nobjects are connected to mobjects.				

Use Fractions (Including Decimals)				
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 one hundred and dividing tenths by ten.				
Round decimals with one decimal place to the nearest whole number.				
Solve simple measure and money problems involving fractions and decimals to two				
decimal places.				
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 1/4, 1/2, 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.				
Compare numbers with the same number of decimal places up to two decimal places.				
<u> </u>				
<u>Use Measures</u>				
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.				
Find the area of rectilinear shapes by counting squares.				
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.				
Understand Properties of Shape			1	
Compare and classify geometric shapes, including quadrilaterals and triangles,				
based on their properties and sizes.				
Identify lines of symmetry in 2-D shapes presented in different orientations. Identify acute and obtuse angles and compare and order angles up to two right angles				
by size.				
Complete a simple symmetric figure with respect to a specific line of symmetry.				
Describe Position, Direction and Movement				
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.				
Describe positions on a 2-D grid as coordinates in the first quadrant.				
		•	•	•
Use Statistics				
Solve comparison, sum and difference problems using information presented in bar				
charts, pictograms, tables and other graphs.				

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.



Standard 5 Assessment Criteria



	Standard 5	Standard 5	Standard 5
	Emerging	Secure	Advanced
Statements Required	14	28	42 (including all bold criteria)

Criteria in bold must be achieved before Advanced level can be awarded.

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Know and Use Number			
Read, write, order and compare numbers to at least 1 000 000 and determine the value			
of each digit.			
Interpret negative numbers in context, count forwards and backwards with positive and			
negative whole numbers, including through zero.			
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.			
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and			
100 000,			
Solve number problems and practical problems that involve all of the above.			
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.			

Add and Subtract			
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).			
Add and subtract numbers mentally with increasingly large numbers (example, 12 462 - 2300 = 10 162)			
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.			

Multiply and Divide			
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.			
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.			
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.			
Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) 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 addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.			

Use Fractions (including decimals and %)						
Compare and order fractions whose denominators are all multiples of the same number.						
Read and write decimal numbers as fractions [for example, 0.71 = 71/100].						
Read, write, order and compare numbers with up to three decimal places.						
Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4,						
1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.						
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, 2/5 + 4/5 = 6/5 = 11/5].						
Add and subtract fractions with the same denominator and denominators that are multiples						
of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and						
diagrams.						
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.						
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.						
<u> </u>						
			_		_	_
<u>Use Measures</u>						
Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and metre; centimetre and millilitre).						
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). Understand and use approximate equivalences between metric units and common imperial						
units such as inches, pounds and pints.						
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.						
	1	1		1	1	1
<u>Understand Properties of Shape</u>						
Draw given angles, and measure them in degrees (0).						
Distinguish between regular and irregular polygons based on reasoning about equal sides						
and angles.	<u> </u>					
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.	<u> </u>					
Identify: I angles at a point and one whole turn (total 360);						
angles at a point and one whole turn (total 300), angles at a point on a straight line and 1/2 a turn (total 180);						
Other multiples of 90.						
Use the properties of rectangles to deduce related facts and find missing lengths and angles.						
Describe Position, Direction and Movement	l			1	l	l
Identify, describe and represent the position of a shape following a reflection or translation,	1	1	1	1		-
using the appropriate language, and know that the shape has not changed.						
Usa Statistics						

Complete, read and interpret information in tables, including timetables.

Solve comparison, sum and difference problems using information presented in a line graph.



Standard 6 Assessment Criteria



	Standard 6 Emerging	Standard 6 Secure	Standard 6 Advanced
Statements Required	14	27	41 (including all bold criteria)

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	awarded.				
<u></u>					
	Know and Use Number			1 1	_
Dayand any urbala numba	er to a required degree of accuracy.		-+		
	· · · · · · · · · · · · · · · · · · ·	1			
	in context, and calculate intervals across zero.				
each digit.	compare numbers up to 10 000 000 and determine the value of				
	ical problems that involve all of the above.	1	-		_
					_
	dd, Subtract, Multiply and Divide				
	bers up to 4 digits by a two-digit whole number.				
	4 digits by a two-digit number and interpret remainders a				
whole number remaind context.	ders, fractions, or by rounding, as appropriate for the	2			
	btraction multi-step problems in contexts, deciding which	1			_
operations and methods		`			
	k answers to calculations and determine, in the context of a	1			
problem, an appropriate					
	bers up to 4 digits by a two-digit whole number using the forma	1			
written method of long n	nultiplication. digits by a two-digit whole number using the formal written	1	 		_
	on, and interpret remainders as whole number remainders				
	g, as appropriate for the context.				
Perform mental calculati	ions, including with mixed operations and large numbers.				
Identify common factors	s, common multiples and prime numbers.				
Use their knowledge of four operations,	the order of operations to carry out calculations involving the \ensuremath{T}	2			
Solve problems involving	addition, subtraction, multiplication and division.				
				•	
	Use Algebra				
Use simple formulae.					
Generate and describe li	near number sequences.				
Express missing number	problems algebraically.				
Find pairs of numbers th	nat satisfy an equation with two unknowns.				_
Enumerate possibilities o	of combinations of two variables.				_
· · · · · · · · · · · · · · · · · · ·					_
	Inderstand Ratio and Proportion				_
	g the calculation of percentages [for example, of measures	,		1 1	_
and such as 15% of 36	OJ and the use of percentages for comparison.				
	g unequal sharing and grouping using knowledge of fractions	5			
and multiples.			\vdash		
	the relative sizes of two quantities where missing values can be aultiplication and division facts.	2			
	similar shapes where the scale factor is known or can be found.	.			_
pr obtainsvoiving		1			_

Use Fractions, Decimals and Percentages		
Use written division methods in cases where the answer has up to two decimal places.		
Solve problems which require answers to be rounded to specified degrees of accuracy.		
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.		
Use common factors to simplify fractions; use common multiples to 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, $1/4 \times 1/2 = 1/8$].		
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].		
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.		

<u>Use Measures</u>			
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.			
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.			
Convert between miles and kilometres.			
Recognise that shapes with the same areas can have different perimeters and vice versa. $ \\$			
Recognise when it is possible to use formulae for area and volume of shapes.			
Calculate the area of parallelograms and triangles.			
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic certimetres (cm3) and cubic metres (m3), and extending to other units (for example, mm3 and km3].			

Understand Properties of Shape			
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.			
Draw 2-D shapes using given dimensions and angles.			
Recognise, describe and build simple 3-D shapes, including making nets.			
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.			
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.			

Describe Position, Direction and Movement			
Describe positions on the full coordinate grid (all four quadrants).			
Draw and translate simple shapes on the coordinate plane and reflect them in the axes.			

Use Statistics			
Interpret pie charts and line graphs and use these to solve problems.			
Calculate and interpret the mean as an average.			
Construct pie charts and line graphs.			

School Requirements

