### Stage G

	1	
		Understand the place value of numbers up to 10 000 000
Block 1	e	Read and write numbers up to 10 000 000
	Valt	Use <, > and = signs to compare numbers up to 10 000 000
	Place Value	Order number up to 10 000 000
	Pla	Interpret and represent numbers on numbers lines
		Count forward in whole number steps
		Count backwards in whole number steps
	ᢐ_	Use number bonds to 10, 20 and 100
	Adding, subtracting and the bar model	Introduce to the bar model and how it can be used for addition
Block 2	Adding, tracting a	Add two numbers using column addition including carries
300	vdd 'act bar	Add sets of numbers using column addition including carries      Add sets of numbers using column addition including carries
	A   he	Introduce the bar model and how it can be used for subtraction  Subtract two purplers using solvers addition including sorries.
	St.	Subtract two numbers using column addition including carries
		Subtract sets of numbers using column addition including carries  Parall and the graph and facts for the 2.7. For all 40 times to blue.
	ס	Recall and use number facts for the 2, 5 and 10 times tables  Parall and use number facts for the 3 and 4 times tables.
	Fimes tables and multiplication	Recall and use number facts for the 3 and 4 times tables  Parall and use number facts for the 6 and 7 times tables.
Block 3	Times tables a multiplication	Recall and use number facts for the 6 and 7 times tables      Recall and use number facts for the 8 and 8 times tables.
300	tab	Recall and use number facts for the 8 and 9 times tables  Parall and use number facts for the 11 and 12 times tables.
	ltip	Recall and use number facts for the 11 and 12 times tables  Multiplying two digit numbers by a single digit using long multiplication.
	Tin Tin	Multiplying two digit numbers by a single digit using long multiplication.      Multiplying many digit numbers by a single digit using long multiplication.
		Multiplying many digit numbers by a single digit using long multiplication.  Assessment of blocks 1.2.
		Assessment of blocks 1-3
	<u>=</u>	Split shapes, objects or sets of objects into equal size parts     Sympost proportions of shapes, objects or sets of objects using fractions.
-	<u>چ</u>	Express proportions of shapes, objects or sets of objects using fractions     Split (wholes or ones) to create a fraction wall.
Block 4	tior	Split 'wholes or ones' to create a fraction wall     Look at equivalence on fraction wall
Blo	raci	<ul> <li>Look at equivalence on fraction wall</li> <li>Compare fractions within fraction wall using numerators</li> </ul>
_	The fraction wall	<ul> <li>Compare fractions within fraction wall using numerators</li> <li>Compare fractions within fraction wall using denominators</li> </ul>
		Link understanding of fraction wall back to sets of objects.
		Multiply integers by 10
	ers	Multiply integers by 100     Multiply integers by 100 and 1000
ın	Multiplying, dividing and rounding integers	Divide integers by 100 and 1000     Divide integers by 10
Block 5		Divide integers by 10     Divide integers by 100 and 1000
Blo		<ul> <li>Round numbers up to 10 000 000 to the nearest 10</li> </ul>
		Round numbers up to 10 000 000 to the hearest 10      Round numbers up to 10 000 000 to the nearest 100
		Round numbers up to 10 000 000 to the hearest 1000
		Understand the concept of negative numbers
	ers	<ul> <li>Count forwards and backwards in whole number steps involving negatives</li> </ul>
9	ī k	Compare positives and negatives
Block 6	Negative Numbers	<ul> <li>Order positives and negatives</li> <li>Order positives and negatives in ascending or descending order</li> </ul>
Blo	ive	Moving up and down the number line in integers
	gat	Find the difference between two numbers involving negatives
	S e	Solve problems in context involving negatives
		Assessment of blocks 4-6
		Accurately measure lines in both cm and mm
	hs	Accurately draw lines in both cm and mm
k 7	Measuring lengths and perimeter	Measure and calculate the perimeter of 2D shapes when dimensions are
	me me	unknown
Block 7	easuring lengt and perimeter	Calculate the perimeter of rectangles when dimensions are known
BI	inst d bt	Calculate the perimeter of rectaligies when dimensions are known
	Mea	Finding perimeters of more complex shapes
	_	Calculating missing lengths from perimeter
L	ı	

Block 8	Division	<ul> <li>Understand division as the process of sharing into groups</li> <li>Solve division problems by 'counting on'</li> <li>Solve missing number multiplication problems and establish link with division</li> <li>Recall and use times table facts to solve division problems</li> <li>Recall and use times table facts to solve more complex division problems</li> <li>Identify fractions of amounts by division</li> <li>Understand that multiplication is commutative and division is not</li> </ul>
		Assessment of blocks 7-8
Block 9	Shapes and symmetry	<ul> <li>Identify a line of symmetry of a 2D shape</li> <li>Identify a line of symmetry of a pattern and for a diagram of a reflection</li> <li>Use a line of symmetry to produce or complete a symmetrical pattern</li> <li>Know that a shape and its reflection are congruent</li> <li>Know and use the names of special types of triangle</li> <li>Know and use the names of polygons</li> <li>Compare and classify 2D shapes using given categories; e.g. number of sides</li> </ul>
Block 10	Time	<ul> <li>Read and write times using the digital 24-hour clock</li> <li>Write times using analogue 12-hour clock</li> <li>Convert between 12-hour time and 24-hour notation</li> <li>Solve problems involving converting from hours, minutes and seconds</li> <li>Solve problems involving converting from weeks to days</li> <li>Solve problems involving converting from years to months</li> <li>Know calendar facts and use to solve related problems</li> </ul>
Block 11	Coordinates	<ul> <li>Use coordinates to describe the position of a point in the first quadrant</li> <li>Plot points in the first quadrant using co-ordinates</li> <li>Use coordinates to plot a set of points to construct a polygon</li> <li>Link compass directions to coordinates</li> <li>Describe movements as translations of a given unit to the left/right</li> <li>Describe movements as translations of a given unit to the up/down</li> <li>Describe movements as translations of a given unit to the left/right and up/down</li> </ul>
		Assessment of blocks 9-11
Block 12	Money	<ul> <li>Recognise the value of coins and solve problems involving them</li> <li>Add amounts of money when the units are the same</li> <li>Add amounts of money when the units are different</li> <li>Subtract amounts of money when the units are the same</li> <li>Subtract amounts of money when the units are different</li> <li>Record a practical money problem using £ and/or p notation</li> <li>Solve practical problems that involve calculating change in manageable amounts</li> </ul>
		End of school Year tests assessing all work taught this academic year
Block 13	Equivalent fractions	<ul> <li>Express the relationship between quantities in a picture as a fraction</li> <li>Express the relationship between quantities in a table as a fraction</li> <li>Identify equivalent fractions from diagrams</li> <li>Find families of equivalent fractions</li> <li>Create diagrams to show families of equivalent fractions</li> <li>Calculate a unit fraction of an amount when the answer is an integer</li> <li>Calculate a non-unit fraction of an amount when the answer is an integer</li> </ul>
Block 14	Presentation of data	<ul> <li>Collect data and construct tally and frequency tables</li> <li>Interpret a pictogram where the symbol represents multiple items</li> <li>Construct a pictogram where the symbol represents multiple items</li> <li>Interpret a bar chart</li> <li>Construct a bar chart</li> <li>Interpret data in tables</li> <li>Answer two-step questions about charts and tables (e.g. 'How many more?'</li> </ul>

### Stage F

_	T	
Block 1	Addition subtraction and the bar model	<ul> <li>Introduce to the bar model and how it can be used for addition</li> <li>Addition of integers up to 10 000 000 using column method</li> <li>Addition of integers and decimals up to 2 d.p. using column method</li> <li>Introduce to the bar model and how it can be used for subtraction</li> <li>Subtraction of integers up to 10 000 000 using column method</li> <li>Subtraction of integers and decimals up to 2 d.p. using column method</li> <li>Solving more complex problems using bar method</li> </ul>
Block 2	Multiples, factors and primes	<ul> <li>Find multiples and common multiples by listing</li> <li>Find factors and common factors by listing</li> <li>Calculate and test whether numbers are prime or composite</li> <li>Find prime factors and write prime factor decomposition of numbers</li> <li>Find common multiples using prime factors</li> <li>Find common factors using prime factors</li> <li>Solve problems involving common factors and multiples</li> </ul>
Block 3	Multiplication and division	<ul> <li>Mental methods for multiplication and division</li> <li>Multiply numbers up to 10 000 000 by a single digit</li> <li>Multiplication of 2 digit numbers by 2 and 3 digit numbers</li> <li>Division of integers up to 1000 by single digits using long division</li> <li>Division of integers by 2 digit numbers using long division</li> <li>Division with remainders writing as fractions</li> <li>Interpreting solutions to division in context</li> </ul>
		Assessment of blocks 1-3
Block 4	Fractions	<ul> <li>What is a fraction and expressing using bar model</li> <li>Identify equivalent fractions using common multiples</li> <li>Simplify fractions using common factors</li> <li>Compare fractions using common numerators</li> <li>Compare fractions using common denominators</li> <li>Order fractions</li> <li>Understand fractions association with division and finding fractions</li> </ul>
Block 5	Negative numbers	<ul> <li>Extending the number line and moving up and down</li> <li>Combine positives and negatives</li> <li>Add negative numbers to positives or negatives</li> <li>Subtract negative numbers from positives or negatives</li> <li>Multiplication involving positive and negative numbers</li> <li>Multiplication involving positive and negative numbers</li> <li>Order of operation involving positives and negatives</li> </ul>
Block 6	Decimals and rounding	<ul> <li>Read, write and counting on in decimals, adding to number lines</li> <li>Compare decimals giving explanations</li> <li>Order decimals up to 4 d.p.</li> <li>Round decimals to the nearest integer</li> <li>Round decimals to 1 and 2 d.p.</li> <li>Approximate using an informal method (not using significant figures)</li> <li>Write decimals as fractions</li> </ul>
		Assessment of blocks 4-6
Block 7	Angles	<ul> <li>Use a protractor to draw angles up to 360°</li> <li>Use a protractor to measure angles up to 360°</li> <li>Use the words acute, right, obtuse and reflex when describing angles</li> <li>Know the angle sum for straight lines and points</li> <li>Know the angle sum of a triangle and use to find missing angles</li> <li>Know the angle sum of a quadrilateral and use to find missing angles</li> <li>Find the missing angle in an isosceles triangle when only one angle is known</li> </ul>
		<ul> <li>Know the angle sum of a quadrilateral and use to find missing angles</li> <li>Find the missing angle in an isosceles triangle when only one angle is known</li> </ul>

Block 8	Properties of shapes and solids	Know the definitions of special triangles
		Know the definitions of special quadrilaterals
	ies d s	<ul> <li>Classify 2D shapes using given categories; e.g. number of sides, symmetry</li> </ul>
	ert	Know the names of common 3 solids
<u> </u>	Properties of apes and soli	<ul> <li>Use mathematical language to describe 3D solids</li> </ul>
	P P	Construct 3D solids from given nets
	S	Draw accurate nets for common 3D solids
		Assessment of blocks 7-8
		<ul> <li>Understand concept of area and approximate areas of complex shapes</li> </ul>
		Calculate areas of rectangles
6	· · ·	Calculate areas of rectangle compound shapes
Block 9	Area	Recognise that shapes with the same areas can have different perimeters
ă	•	Discover how area of triangles can be found
		• Know that the area of a triangle is given by the formula area = ½ × base × height
		Calculate the areas of more complex triangles
		Identify when a comparison problem can be solved using multiplication or division
		Identify when a comparison problem requires both division and multiplication
	lar g	Use the value of a single item to solve a comparison problem
Block 10	Proportional reasoning	Use ratio notation to describe a comparison of more than two measurements
30	Sor	Identify when a ratio is written in its lowest terms and simplify using common
<u> </u>	rea rea	factors
	Δ.	Find a quantity using a ratio and another quantity
		Divide a quantity in two parts in a given ratio
		Understand that a percentage represent a fraction of 100
	75	Convert fractions to percentages and vice-versa
₩.	Fractions and percentages	Calculate fractions of amounts
k 1	ins Ita	
Block 11	cer	Use fraction equivalents to find a percentage of an amount      Use non-calculator methods to find a percentage of an amount (combining %)
<b>—</b>	rac per	Use non-calculator methods to find a percentage of an amount (combining %s)      A second properties by a grant property of the second property of the seco
	_	Increase quantities by a percentage
		Decrease quantities by a percentage     Assessment of blocks 9-11
		Reading Scales
	S	<ul> <li>Understand and estimate and measure using metric measurements for length</li> </ul>
7	eni	
k 1	em	Understand and estimate and measure using metric measurements for weight
Block 12	easurements	Understand and estimate and measure using metric measurements for capacity  Convert between metric units of length
<b>—</b>		Convert between metric units of length
	Σ	Convert between metric units of weight and capacity  Colored to the second control of the second control
		Solve problems involving lengths, weight and capacity
		End of school Year tests assessing all work taught this academic year
	s	Identify square numbers and understand associated notation
_	ube der ns	Identify triangular numbers and their links to square
Block 13	uares, cubo s and orde operations	Identify cube numbers and understand notation
oct	res ind era	Understand the meaning of square roots and links with squares
<u> </u>	Squares, cubes oots and order o	Use trial and error/improvement to estimate square roots
	Squares, cubes roots and order of operations	• Use order of operations for + - x ÷ ()
		Use order of operations with squares, cubes and roots.
	_	Understand the mean as a measure of typicality
	late	Calculate the mean of a set of data
4	0	Use the mean to find a missing number in a set of data
Block 14	an	Understand that pie charts show proportions and calculate frequencies from
	ges	angles
B	Averages and data	Use a table of frequencies to work out angles and draw pie charts
		Use scaling when constructing line graphs
	<	a see seeming without defined mile graphic
	٩	<ul> <li>Answer two-step questions about data in line graphs (e.g. 'How much more?')</li> </ul>

### Stage E

F	1	
Block 1	Addition subtraction and the bar model	<ul> <li>Introduce to the bar model and how it can be used for addition</li> <li>Addition of integers up to 10 000 000 using column method</li> <li>Addition of integers and decimals up to 2 d.p. using column method</li> <li>Introduce to the bar model and how it can be used for subtraction</li> <li>Subtraction of integers up to 10 000 000 using column method</li> <li>Subtraction of integers and decimals up to 2 d.p. using column method</li> <li>Solving more complex problems using bar method</li> </ul>
Block 2	Multiples, factors and primes	<ul> <li>Find multiples and common multiples by listing</li> <li>Find factors and common factors by listing</li> <li>Calculate and test whether numbers are prime or composite</li> <li>Find prime factors and write prime factor decomposition of numbers</li> <li>Find common multiples using prime factors</li> <li>Find common factors using prime factors</li> <li>Solve problems involving common factors and multiples</li> </ul>
Block 3	Multiplication and division	<ul> <li>Mental methods for multiplication and division</li> <li>Multiply numbers up to 10 000 000 by a single digit</li> <li>Multiplication of 2 digit numbers by 2 and 3 digit numbers</li> <li>Division of integers up to 1000 by single digits using long division</li> <li>Division of integers by 2 digit numbers using long division</li> <li>Division with remainders writing as fractions</li> <li>Interpreting solutions to division in context</li> </ul>
		Assessment of blocks 1-3
Block 4	Fractions	<ul> <li>What is a fraction and expressing using bar model</li> <li>Compare fractions using numerators</li> <li>Compare fractions using denominators</li> <li>Order fractions</li> <li>Identify equivalent fractions using common multiples</li> <li>Simplify fractions using common factors</li> <li>Understand fractions association with division and finding fractions</li> </ul>
Block 5	Negative numbers	<ul> <li>Extending the number line and moving up and down</li> <li>Combine positives and negatives</li> <li>Add negative numbers to positives or negatives</li> <li>Subtract negative numbers from positives or negatives</li> <li>Multiplication involving positive and negative numbers</li> <li>Multiplication involving positive and negative numbers</li> <li>Order of operation involving positives and negatives</li> </ul>
Block 6	Decimals and rounding	<ul> <li>Read, write and counting on in decimals, adding to number lines</li> <li>Compare decimals giving explanations</li> <li>Order decimals up to 4 d.p.</li> <li>Round decimals to the nearest integer</li> <li>Round decimals to 1 and 2 d.p.</li> <li>Approximate using an informal method (not using significant figures)</li> <li>Write decimals as fractions</li> </ul>
	l	Assessment of blocks 4-6
Block 7	Lines and angles	<ul> <li>Use notation for parallel lines and identify perpendicular lines</li> <li>Know the meaning of 'regular' polygons</li> <li>Identify line and rotational symmetry in polygons</li> <li>Use AB notation for describing lengths and ABCDE notation for polygons</li> <li>Use <abc angles<="" describing="" for="" li="" notation=""> <li>Use ruler and protractor to construct triangles from written descriptions</li> <li>Use ruler and compasses to construct triangles when all three sides known</li> </abc></li></ul>

Block 8	Algebraic thinking	<ul> <li>Know the meaning of expression, term and equation</li> <li>Use letters to represent variables and basic algebraic notation</li> </ul>
	hin	Identify like terms in an expression
	ict	Simplify expressions by collecting like terms
8	pra	Know how to multiply a single term by a bracket
	lge	Substitute numbers into expressions and formulae
	⋖	Use the order of operations correctly in algebraic situations
		Assessment of blocks 7-8
		Convert mixed numbers to improper fractions and vice versa
		<ul> <li>Apply addition to proper fractions, improper fractions and mixed numbers</li> </ul>
6)	ons	Apply subtraction to proper fractions, improper fractions and mixed numbers
Block 9	Fractions	Multiply proper and improper fractions
ᇳ	Fra	Multiply mixed numbers
		Divide a proper fraction by a proper fraction
		Apply division to improper fractions and mixed numbers
	ક	Use the bar model to represent equations
_	tior	Solve one and two step equations using the bar model looking at order
Block 10	Solving equations	<ul> <li>Introduce formal written method for solving one and two step equations</li> </ul>
ock	ed	Solve two step equations when solution is a fraction
B	ing	Solve equations involving brackets both ways
	9	Solve three step equations with any type of solution
	0,	Check solutions to equations using substitution
		Use a term-to-term rule to generate linear and nonlinear sequences
	Š	Describe number sequences and find term to term rules
11	Sednences	Use position-to-terms rule and use to generate a sequences
Block 11	ne	Find the position-to-term rule for a given sequence
8	Sec	Use position to term rules to create formulae for patterns
	J 0,	Use the nth term of a sequence to deduce if a given number is in a sequence
		Generate a sequence using a spreadsheet
		Assessment of blocks 8-11
		Plot and describe coordinates in all four quadrants
	ransformations	Write equations of, identify and draw lines parallel to x and y axis
12	atic	• Identify and draw the lines y = x and y = -x
Block 12	Ē	Reflect shapes in horizontal, vertical and 45° mirror lines
Blo	Isfo	Find the equation of a mirror line for a given reflection
	rar	Use vectors to translate shapes
	_	Carry out a rotation using a given angle direction and centre
		Describe rotations using mathematical language
		End of school Year tests assessing all work taught this academic year
	Su	Identify and define solids using vertices, edges and sides    Desire
m	tion	Using isometric paper draw 2 dimensional representations of solids
k 13	nta olid	Linking isometric drawing to nets of solids  Lacking at 2D solids from different views sinter
Block 13	resentati of solids	Looking at 3D solids from different viewpoints  One of the state
<b>—</b>	Representations of solids	Drawing plan and elevations to represent solids      Using a plan and elevation to construct a solid
	%	Using a plan and elevation to construct a solid  Linking between all representations.
-		Linking between all representations  Identify mean medians and median for sets of data.
	50	Identify mean, medians and modes for sets of data.  I have mean median and mode to find missing data within sets.
4	ding S	Use mean, median and mode to find missing data within sets.  Identify according where different averages sould be used and limitations.
k 1,	tan	Identify scenarios where different averages could be used and limitations      Understand the reason as a measure of spread (or specificance).
Block 14	Understanding averages	Understand the range as a measure of spread (or consistency      Calculate measure from the measure of the
8		Calculate means from frequency tables and bar charts     Calculate medes, median and range from frequency tables and har charts.
	) >	Calculate modes, median and range from frequency tables and bar charts     Analyse and company sets of data.
		Analyse and compare sets of data

### Stage D

	1	
		How and why to do we round numbers?
Block 1	<b>9</b> 5	<ul> <li>What is a significant figure and how do we round using them?</li> </ul>
	Rounding and approximation	<ul> <li>How do we round small numbers to significant figures?</li> </ul>
	ing im	If an answer is given to a degree of significant figures what are the largest and smallest
<b>8</b>	P S	values this could take?
_	S de	How and why do we approximate?
	e	<ul> <li>When approximating in what order should I do the calculation?</li> </ul>
		How can approximation be used to solve problems?
		How can formulae be used to show the relationship between measurements?
		What can be calculated from a formula?
	o o	How do we use formulae to find a variable that is not the subject?
Block 2	Formulae	Why is it sometimes useful to change the subject of formulae?
90	E	In what order do we rearrange more complicated formulae?
-	윤	What do we do if we can't solve a problem algebraically? (trial and improvement)
		What steps do we have to show to fully justify our answers when using trial and
		improvement?
		How can the relationship between two or more quantities be written as a ratio and can
	Ĕ	they be expressed in more than one way?
	ļ ij	What is the link between ratios and fractions?
m	od	If we know the ratio between two quantities what else can we find?
<del>8</del>	pro	How do ratios on maps and scale drawings work?
Block 3	Ratio and proportion	What is meant by direct proportion and how does this link to ratio?
_	o ai	How can we use direct proportion to solve problems (including converting common)
	ati	metric and imperial measures)?
	~	How can we use proportion find which item represents the best value?
		Assessment of blocks 1-3
	I	11111 1 11 11 11 11 11
		How can calculators to find a percentage of an amount using multiplicative methods?
	)ge	How do we identify the multiplier for a percentage increase or decrease?
_	haı	How do we use calculators to increase or decrease an amount by a percentage using a
Block 4	9	multiplier?
ŏ	Percentage change	How do we solve repeat percentage problems using multipliers?
	Cen	How do we solve compound percentage problems? (including finding using index
	er	notation)
	_	Can we derive a formula for percentage change? How do we calculate the percentage
		change including percentage increase / decrease?
	s, nd	What are scale drawings used for and how are they made?
	arings, ons and i	How do we interpret scale drawings including maps?
X 5		What are bearings used for and why do we need them?
Blocl	Maps, bearings, constructions an loci	How do we construct triangles with given side lengths?
<b>—</b>	aps, stru	How do we bisect lines and angles?
	Σgg	How can we solve loci problems involving paths of objects?
		How can we solve loci problems involving where objects can be? (areas)
		How can we find corresponding x and y values for an equation
	e u	<ul> <li>How do we draw the graph of a linear equation written in terms of x and y?</li> </ul>
9 >	t Lii	<ul> <li>For equations in the form of y=mx + c what effect does changing c have?</li> </ul>
Block 6	aight Li Graphs	<ul> <li>For equations in the form of y=mx + c what effect does changing m have?</li> </ul>
<u> </u>	Straight Line Graphs	How do we find the gradient of a line segment?
	ν ·	Can we identify an equation from its graph?
		What else can we spot about graphs just by looking at their equations?
		Assessment of blocks 4-6
Block 7	Š	What is pi?
	) ape	How can we calculate the circumference of a circle
	Perimeter of shapes	How do we calculate the lengths of arcs?
		How do we calculate the perimeter of segments?
		If we know the perimeter of a sector can we calculate its radius or angle?
		How do we calculate the perimeter of circle composites?
		If we know the know the perimeter of a composite shape what can we deduce about
	۵	the shape?
	•	,

What patterns can we spot when we have a set of parallel lines intersected by line segment?  What language is used to describe angles on parallel lines and can we use are derived facts to solve problems How can we calculate the internal angles of regular polygons?  What can we deduce about polygons from their external and internal angles?  What can we deduce about polygons from their external and internal angles?  Can we solve problems involving non-regular shapes using what we have learnt about external and internal angles?  What is tessellation and how can we identify if shapes will tessellate?  Assessment of blocks 7-8  What is important to be able to convert between different units of time?  What can we deduce about a object if we know its speed (finding distances and times)  How can journeys be represented graphically?  What is density and what problems can be solved using it?  Are there any other compound measures?  How do we calculate the theoretical probability of an event occurring?  How can probabilities be calculated using Venn diagrams?  What is meant by relative frequency?  How and no probabilities be calculated using Venn diagrams?  What is meant by relative frequency?  How do we calculate how often we expect an event to occur?  How do we calculate the area of rompound shapes?  How do we derive a formula for the area of a parallelogram?  How do I calculate the area of shapes involving semi-circles and quadrants?  How do I derive a formula for the area of a parallelogram?  How do I derive a formula for the area of a circle?  How do I derive a formula for the area of a circle?  How do I derive a formula for the area of a circle?  How do I derive a formula for the area of a circle?  How do I find the area of shapes involving semi-circles and quadrants?  How do I derive a formula for the area of a circle?  How do we calculate the area of the prisms?  How do we calculate the area of the prisms?  How do we calculate the area of of the prisms?  How do we calculate the area of of the prisms?  How do we ca			
What language is used to describe angles on parallel lines and can we use are derived facts to solve problems   All the compound of the com		S	
What is resealtation and how can we identify if shapes will tessellate?  ***Assessment of blocks 7-8  **Why is it important to be able to convert between different units of time?  **What is meant by speed and how is it calculated?  **What is meant by speed and how is it calculated?  **What is meant by speed and how is it calculated?  **What can we deduce about an object if we know its speed (finding distances and times)  **What is density and what problems can be solved using it?  **Are there any other compound measures?  **How can yellow the theoretical probability of an event occurring?  **How can probabilities be calculated from two way tables?  **How can probabilities be calculated using Venn diagrams?  **What is meant by relative frequency?  **How do we calculate how often we expect an event to occur?  **How do we calculate how often we expect an event to occur?  **How do we calculate the area of compound shapes?  **How do we calculate the area of a parallelogram?  **How do we derive a formula for the area of a parallelogram?  **How do I dind the area of shapes involving semi-circles and quadrants?  **How do I dind the area of shapes involving semi-circles and quadrants?  **How do I dind the area of shapes involving semi-circles and quadrants?  **How do we calculate the surface area of cuboids?  **What is meant by volume?  **How do we calculate the invited and ow one calculate the involving semi-circles and quadrants?  **How do we calculate the surface area of other prisms?  **How do we calculate the surface area of other prisms?  **How do we calculate the surface area of other prisms?  **How do we calculate the area of the curved face of a cylinder?  **End of school Year tests assessing all work taught this academic year  **What is the relationship between the lengths of the sides in a triangle?  **What is represented by the propulation of the prisms?  **How can Pythagoras Theorem be used to find other sides in a triangle?  **What are Pythagoras Theorem be used to solve problems involving non-right angled		angle	What language is used to describe angles on parallel lines and can we use are derived
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How do we describe the relationship between variables?			
			How do we describe the relationship between variables?

## Stage C

		and a second sec
		What areas are represented by quadratic expressions?
Block 1	ic	In what ways can quadratic expressions be written? (double brackets)
	Quadratic Expressions	<ul> <li>How do we factorise quadratic expressions with positive coefficients (where coefficient of x<sup>2</sup> is 1)</li> </ul>
	uac pre	How do we factorise quadric expressions with positive or negative coefficients
	O X	How do we tractorise quadrite expressions with positive of negative coefficients     How do we draw graphs of quadratic functions? (Using calculator table function)
		<ul> <li>What do quadratic graphs look like when the coefficient of x² is negative?</li> </ul>
		How do we draw the graph of a linear equation without calculating its coordinates
	2	<ul> <li>How do find the point of intersection of two straight lines.</li> </ul>
7	eon	How do we solve simultaneous equations graphically?
Block 2	Simultaneous equations	How do we formulate simultaneous equations?
B	la in	How do we solve simultaneous equations using elimination when we have matching
	Sin	coefficients?
		<ul> <li>How do we solve simultaneous equations when we have no-matching coefficients?</li> </ul>
		What are the laws of indices
	d rd	<ul> <li>How can the laws of indices be used to simplify algebraic expressions and fractions.</li> </ul>
m	an ndi nda	What do negative indices mean?
Block 3	Positive and negative Indices and Standard Form	<ul> <li>How are large numbers represented in standard form?</li> </ul>
8	osit gativ nd S	<ul> <li>How are small numbers represented in standard form?</li> </ul>
	P neg ar	<ul> <li>How do we add and subtract numbers written in standard form?</li> </ul>
		<ul> <li>How do we multiply and divide numbers written in standard form?</li> </ul>
		Assessment of blocks 1-3
	SS	<ul> <li>How can inequalities be used to represent information?</li> </ul>
	<u>i</u>	<ul> <li>How can inequalities be represented on a number line?</li> </ul>
4	dna	<ul> <li>What integers satisfy a given inequality?</li> </ul>
Block 4	nec	<ul> <li>How do we solve inequalities?</li> </ul>
8	Linear Inequalities	<ul> <li>When we solve some inequalities do our answers not make sense (x or ÷ by -ve)</li> </ul>
	ine	<ul> <li>How do we solve inequalities with more than one inequality symbol?</li> </ul>
	_	How can inequalities be used to solve geometry problems
	us	<ul> <li>How do we solve basic quadratic equations graphically (LHS or RHS = 0)</li> </ul>
	Ę	How can we solve a quadratic equation graphically when one side does not equal zero?
ro.	ant	<ul> <li>How do we solve quadratic equations by factorising equations (LHS or RHS = 0)</li> </ul>
Block 5	) o	Do some quadratic equations need to be rearranged before they can be solved by
ă	rati	factorising?
	Quadratic equations	<ul><li>Do all quadratic equations have two integer solutions?</li><li>What is the quadratic formulae?</li></ul>
	ð	<ul><li>What is the quadratic formulae?</li><li>What does it mean if the quadratic formula does not give us any solutions?</li></ul>
<b> </b>	-	What is the difference between direct and inverse proportion?
	irse	<ul> <li>What is the difference between direct and inverse proportion?</li> <li>How can we tell if two quantities are directly proportional to each other?</li> </ul>
9	Direct and inver proportion	How do we formulate equations for direct proportion?
Block 6	ct and inve proportion	<ul> <li>How can we tell if two quantities are inversely proportional to each other?</li> </ul>
Blo	t ar rop	How do we formulate equations for inverse proportion?
	p Iq	How do we solve problems involving non-linear direct proportion?
	ō	<ul> <li>How do we solve problems involving non-linear inverse proportion?</li> </ul>
		Assessment of blocks 4-6
	_	How do we enlarge shapes using a centre of enlargement?
	anc	Does enlarging a shape always make it bigger?
7	Enlargement and similar shapes	<ul> <li>Is it possible to enlarge a shape by a negative scale factor?</li> </ul>
Block 7		What is meant by congruent and similar shapes?
Blo		How are scale factors between similar shapes calculated?
		<ul> <li>How can scale factors be used to find missing lengths in similar shapes</li> </ul>
	ш	<ul> <li>How can we prove if two triangles are congruent?</li> </ul>

Block 8	Trigonometry	<ul> <li>What is the relationship between the lengths and angle of RA triangles?</li> <li>What are trig ratios?</li> <li>How can the trig ratios be used to find missing sides of RA triangles?</li> <li>How can we find sides if the unknown is the denominator?</li> <li>How can we find areas of RA triangles using trigonometry?</li> <li>How do we find angles in RA triangles using trig ratios?</li> <li>How can we solve problems featuring multiple triangles?</li> </ul>
		Assessment of blocks 7-8
Block 9	Geometric and quadratic sequences	<ul> <li>What is the difference between an arithmetic and geometric sequence?</li> <li>How do we find position to term rules for geometric sequences?</li> <li>What do the graphs of geometric sequences look like?</li> <li>What is a quadratic sequence and how can we generate them using position to term rules?</li> <li>How do we find the position to term rules for quadratic sequences?</li> <li>How can your understanding of quadratic sequences be applied in solving geometry problems?</li> </ul>
Block 10	Set notation and probability	<ul> <li>What is set notation?</li> <li>How can information given in set notation be used to find probabilities in Venn diagrams?</li> <li>How can listing outcomes allow us to calculate the probability of an event? (product rule for counting)</li> <li>What is a sample space diagram?</li> <li>How events be represented on a tree diagram?</li> <li>How can probabilities events be calculated using tree diagrams?</li> <li>How can probabilities of dependent events be calculated using tree diagrams?</li> </ul>
Block 11	Proof	<ul> <li>How do we show that two expressions are always equal?</li> <li>What is the difference between a proof and a demonstration?</li> <li>How can we write odd and even numbers algebraically?</li> <li>How can we show that an expression is a particular multiple?</li> <li>How can we describe consecutive numbers algebraically?</li> <li>How can we describe the relationship between other numbers on a number grid?</li> <li>What problems can be solved with proof?</li> </ul>
		Assessment of blocks 9-11
Block 12	Cumulative frequency, and box plots	<ul> <li>How do we find the median and quartiles for discrete data?</li> <li>What is the interquartile range and why is it useful? (discrete data)</li> <li>How do we calculate cumulative frequencies?</li> <li>How do draw cumulative frequency curves?</li> <li>What information can we find from a cumulative frequency curve?</li> <li>How do we draw box plots using data from a cumulative frequency graph?</li> <li>What conclusions can we make by comparing box plots?</li> </ul>
		End of school Year tests assessing all work taught this academic year
Block 13	Volume and surface area	<ul> <li>What solids do we know how to calculate the volumes of?</li> <li>How do we find the volumes of cones and pyramids?</li> <li>How do we find volumes of spheres?</li> <li>What solids do we know how to calculate the surface area of?</li> <li>How do we find the surface area of cones and pyramids?</li> <li>How do we find surface of spheres?</li> <li>How do we find the volume and SA of a frustum?</li> </ul>
Block 14	Vectors	<ul> <li>What is a vector and how can we write column vectors?</li> <li>How can we identify if two column vectors are parallel?</li> <li>What different notation is used for vectors?</li> <li>How do we add and subtract column vectors?</li> <li>How do we identify how to get from one point to another using algebraic vector notation?</li> <li>How can we identify if two algebraic vectors are parallel?</li> <li>How can we find the midpoint of a vector?</li> </ul>

### Stage B

	I I	
		<ul> <li>What are rational and irrational numbers?</li> </ul>
Block 1	B	<ul> <li>How can we write recurring decimals as fractions and vice versa?</li> </ul>
	Rational and irrational numbers	What is a surd?
	ons atic	<ul> <li>How do we simplify surds?</li> </ul>
8	irr irr nu	<ul> <li>How do we add and subtract surds?</li> </ul>
	~	<ul> <li>How do we to multiply and divide surds?</li> </ul>
		What is meant by rationalising denominators
		<ul> <li>What methods have we learnt to solve quadratic equations?</li> </ul>
	the	<ul> <li>How do we draw graphs of quadratic functions?</li> </ul>
62	ng re	<ul> <li>What parts of a quadratic graph are we able to sketch from the equation?</li> </ul>
Block 2	Completing the square	<ul> <li>What do we mean by 'completing the square'?</li> </ul>
ॼ	d w	<ul> <li>How do we find the vertex of quadratic functions?</li> </ul>
	Š	<ul> <li>How do we solve equations by completing the square?</li> </ul>
		<ul> <li>How do we sketch functions using completed square form?</li> </ul>
		<ul> <li>What are the parts of a circle called?</li> </ul>
	SE .	<ul> <li>What angles are formed by a centre and a chord?</li> </ul>
m	ore	<ul> <li>How big is an angle that is subtended by a diameter?</li> </ul>
Block 3	Pe	<ul> <li>What properties do other angles subtended by chords have?</li> </ul>
B	e t	What is a cyclic quadrilateral?
	Circle theorems	What angle properties do tangents have?
		What is the alternate segment theorem?
		Assessment of blocks 1-3
		What is the difference between distance/time and displacement/time graphs?
		How do we draw speed/time and velocity/time graphs for journeys?
-	me nd ics	<ul> <li>What information can we find from a velocity time graph?</li> </ul>
ck v	I/tii Is a nat	What information can we find from a velocity time graph?      What formulae can we derive from a velocity time graph?
Block 4	Speed/time graphs and kinematics	Can we derive any more formulae from our existing ones?
_	Sp. gra kir	
		What happens if we get more one solution to a kinematics problem?  What made ability discrepancy and boundary and boundary and boundary.
	~ E = ~	What probability diagrams we know and how do we use them?
ı,	ility s ar ona ility	How do we decide which is the most appropriate probability diagram?
Block 5	am and difficult	How can we convert between Venn diagrams, two-way tables and frequency trees?  What is an altitude lead to be like and table to a table and a way and a second as a secon
ă	Probability diagrams and conditional probability	What is conditional probability and what notation do we use?  How do you ado do to you divise a long to thit to form a young to be little at a young?
	_ G	How do we calculate conditional probability from our probability diagrams?      What formulae are used in a conditional probability and probability diagrams?
		What formulae can we discover for conditional probability?
		What makes a fraction an algebraic fraction?  Conversional fractions 2.
	υω	Can we simplify algebraic fractions?
<del>بد</del>	Algebraic fractions	How can factorising be used to simplify algebraic fractions?
Block		How do we multiply algebraic fractions?
_		How do we divide algebraic fractions?
		How do we add/subtract algebraic fractions?
		How do we solve equations containing algebraic fractions?
		Assessment of blocks 4-6
	d &	How do we use Pythagoras' theorem and trigonometry in 2D?
	3d Coordinates, Pythagoras and trigonometry	Can we use Pythagoras' theorem to find missing sides/lengths in cuboids?
k 7	d Coordinates ythagoras and trigonometry	<ul> <li>Can we use Pythagoras' theorem to find missing side/lengths in other 3D shapes?</li> </ul>
Block 7	ord goi noi	<ul> <li>How can we use trigonometry to find missing angles within cuboids?</li> </ul>
8	Co tha igo	<ul> <li>How can we use trigonometry in other 3D shapes?</li> </ul>
	3d tr	What are 3D coordinates?
		Can we solve problems in a 3D Cartesian axis?
		<ul> <li>How did we find the areas of composite shapes involving sectors?</li> </ul>
	spu	<ul> <li>How do we find the angle of a sector or its radii if we know its area?</li> </ul>
80	l no	<ul> <li>How did we find the perimeters of composite shapes involving sectors?</li> </ul>
쑮	ğ	<ul> <li>How do we find the angle of a sector or its radii if we know the arc length?</li> </ul>
Block 8	9	<ul> <li>How do we find the angle of a sector or its radii if we know the perimeter?</li> </ul>
Φ.	Circle compounds	<ul> <li>How do we solve volume problems involving prisms, cones, spheres and pyramids?</li> </ul>
		<ul> <li>How do we solve surface area problems involving prisms, cones, spheres and</li> </ul>
		pyramids?

		Assessment of blocks 7-8
Block 9	Functions, cubic/reciprocal graphs and transformations	<ul> <li>What is a function?</li> <li>What do we mean by a composite function?</li> <li>What is an inverse function?</li> <li>How do we draw the graphs of cubic functions?</li> <li>How do we draw the graphs of reciprocal functions?</li> <li>How can we show single translations or reflections of functions?</li> <li>How can we show multiple translation or reflections of functions?</li> </ul>
Block 10	Sine rule, cosine rule and area of a triangle	<ul> <li>How can we find the area of a triangle?</li> <li>Can we use the area to find a missing angle or side?</li> <li>What is the sine rule and where does it come from?</li> <li>How do we use the sine rule to find missing sides in non-right angle triangles?</li> <li>How do we use the sine rule to find missing angles in non-right angle triangles?</li> <li>What is the cosine rule and why do we need it?</li> <li>How do we use the cosine rule to find missing sides in non-right angle triangles?</li> <li>How do we use the cosine rule to find missing angles in non-right angle triangles?</li> </ul>
Block 11	Graphs of inequalities and linear programing	<ul> <li>How do we solve linear inequalities algebraically?</li> <li>How do we solve quadratic inequalities algebraically?</li> <li>How do we represent an inequality graphically?</li> <li>Can we solve linear inequalities graphically?</li> <li>Can we solve quadratic inequalities graphically?</li> <li>What is linear programming?</li> <li>How can we solve problems using linear programming?</li> </ul>
_		Assessment of blocks 9-11
Block 12	Quadratics and identities	<ul> <li>How do we factorise and solve quadratic equations of the form x² + bx + c?</li> <li>How do we factorise quadratics when they have a coefficient of x²?</li> <li>How do we solve quadratic equations of the form ax² + bx + c?</li> <li>How can we expand triple brackets?</li> <li>What is an identity?</li> <li>How can we use our knowledge of expanding brackets to find coefficients in an identity?</li> </ul>
		End of school Year tests assessing all work taught this academic year
*Block 13	Further data analysis	<ul> <li>What is meant by 'sampling' and why is it useful?</li> <li>What is a population and how does it differ from a sample?</li> <li>How can we spot trends in data over time? (Time series)</li> <li>What is a moving average?</li> <li>What is the difference between a frequency diagram and a histogram?</li> <li>How do we draw histograms with unequal class widths?</li> <li>What information can we find from histograms? (Medians)</li> </ul>
*Block 14	Fractional indices, estimating powers and bounds	<ul> <li>What do we mean by the upper and lower bounds of a number? (use the word truncate)</li> <li>Can we find the upper and lower bounds for numerical calculations?</li> <li>What laws of indices have we seen so far?</li> <li>What does it mean when the exponent is a unit fraction?</li> <li>How do we evaluate expressions with exponents of the form a/b?</li> <li>How do we solve equations containing indices?</li> <li>How can we use our knowledge of powers to estimate the roots of numbers?</li> </ul>

# Stage A (Year 11 only)

	1	T
Block 1	Further quadratic and simultaneous equations	How do we complete the square when we have coefficients of x²?
		<ul> <li>How do we use completing the square to solve equations of the form ax<sup>2</sup> + bx + c?</li> </ul>
		How do we choose which method we use to solve problems involving quadratic
		equations? (Discriminant)?
		What methods do we know for solving simultaneous equations?  Here do not a live that a second size of the second size of t
		How do we solve simultaneous equations graphically where there is one linear and one guadratical.
		and one quadratic?
		<ul> <li>How do we solve simultaneous equations algebraically where there is one linear and one quadratic?</li> </ul>
Block 2	Vectors and similar figures	How can we use our geometry skills to solve vector problems?
		How do we solve vector problems involving ratios?
		What is meant by 'collinearity' and how do we prove it?
		How do we solve more difficult similarity problems (including proofs)?
		How are scale factors for length, area and volume linked?
		How do we convert between different units for area and volume?
Block 3	S.	What is a linear function and how can we find their equation?
	Equations of perpendicular lines and coordinate geometry	What mathematical relationships can two linear functions have?
		How do we find the equations of linear functions which are perpendicular?
		<ul> <li>What is special about functions in the form x² + y² = r²?</li> </ul>
		How can we find equations of tangents to circles?
		How can we use our knowledge of circle theorems to tackle coordinate geometry
		problems?
Block 4	Fractional sequences, complex quadratic sequences and iteration	What notation should we use for term to term and nth term rules?
		How does the nth term rule change if the constant second difference of a
		sequence isn't 2?
		• How do we find the nth term rule for sequences of the form an <sup>2</sup> + bn + c?
		What is a fractional sequence and how do we find the nth term rule?
		What is iteration and why is it useful?
		How can we use iteration to find roots of an equation?
		How can we find iterative forms of an equation? (rearranging to find converging
		<ul> <li>sequences)</li> <li>What information can be extracted from speed/time graphs?</li> </ul>
Block 5	of change and areas under curves	How does variable acceleration impact on us calculating the distance travelled?
		How can we approximate the area under curves/functions?
		How do we find the rate of change for linear functions? (gradient)
		Will rate of change always be constant?
		How do we find the rate of change of non-linear functions? (graphically)
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	Rates	
	œ	
Block 6	Trigonometric graphs and equations	Can we solve trigonometry problems without a calculator?
		How can we derive the exact trig values?
		What is the value of sin 560°?
		What would the graphs of the functions sine and cosine look like?
	med	What does the graph of tan look like and what are asymptotes?
	ou pu	How do we transform trigonometric graphs?
	igo al	How can we use the graphs to solve trigonometric equations within a given
		interval?
	•	

Revision onwards