## Main Scheme - 7 x 1hrs per fortnight

	man conome / A ima par forting it
	Describe and continue a sequence given diagrammatically
	Predict and check the next term(s) of a sequence
sə	Represent sequences in tabular and graphical forms
Sednences	Recognise the difference between linear and non-linear sequences
da	Continue numerical linear sequences
Se	Continue numerical non-linear sequences
	Explain the term-to-term rule of numerical sequences in words
	H - Find missing numbers within sequences
	Recognise the place value of any digit in an integer up to one billion
pe	Understand and write integers up to one billion in words and figures
<u> </u>	Work out intervals on a number line
Ž	Position integers on a number line
ing	Round integerss to the nearest power of 10
ler	Compare two numbers using =, ≠, <, >, ≤ and ≥
) C	Order a list of integers
ğ	Understand place value for decimals
a	Position decimals on a number line
anı	Compare and order any number up to one billion
Za	Round a number to 1 significant figure
હ	H - Write 10, 100, 1000 etc as powers of 10; H - Write positive integers in the form A x 10^n
Place Value and Ordering Numbers	H - Investigate negative powers of 10; H - Write decimals in the form A x 10 n
	Understand and use representations of directed numbers
Ja	Order directed numbers using lines and appropriate symbols
np	Perform calculations that cross zero
Zn/	Add directed numbers
Directed Number	
cte	Subtract directed numbers
rec	Multiplication of directed numbers
Õ	Multiplication and division of directed numbers
	Use a calculator for directed number calculations
	Given a numerical input, find the output of a single function machine
	Use inverse operations to find the input given the output Use diagrams and letters to generalise number operations
u	Use diagrams and letters with single function machines
tio	Find the function machine given a simple expression
ota	Find numerical inputs and outputs for a series of two function machines
Š	Use diagrams and letters with a series of two function machines
aic	Find the function machine given a two-step expression
pr	Substitute values into single operation expressions; Evaluate algebraic expressions with
Algebraic Notation	directed number
4	Substitute values into two-step expressions
	Generate sequences given an algebraic rule
	Represent one- and two-step functions graphically (inc. table of values)
	nepresent one- and two-step functions graphically (inc. table of values)

Understand the meaning of equality	
Understand and use fact families, numerically and algebraically	
Understand the meaning of like and unlike terms	
Understand the meaning of like and unlike terms  Understand the meaning of equivalence  Simplify algebraic expressions by collecting the like term using the ≡ syn  Solve one-step linear equations involving addition and subtraction using  Solve one-step linear equations involving multiplication and division using	
Simplify algebraic expressions by collecting the like term using the ≡ syn	nbol
Solve one-step linear equations involving addition and subtraction using	inverse operations
Solve one-step linear equations involving multiplication and division using	ng inverse operations
Introduction to two-step equations	
Solve two-step equations	
Represent tenths and hundredths as diagrams	
Represent tenths and hundredths on number lines	
Interchange between fractional and decimal number lines	
Convert between fractions and decimals - tenths and hundredths	
Convert between fractions and decimals - fifths and quarters	
Convert between fractions and decimals - fifths and quarters  H - Convert between fractions and decimals - eighths and thousandths  Understand the meaning of percentage using a hundred square  Convert fluency between simple fractions, decimals and percentages  Represent any fraction as a diagram  Represent fractions on number lines	
Understand the meaning of percentage using a hundred square	
Convert fluency between simple fractions, decimals and percentages	
Represent any fraction as a diagram	
Represent fractions on number lines	
Identify and use simple equivalent fractions	
Understand fractions as division	
Convert fluently between FDP	
H - Explore fractions above one, decimals and percentages	
Properties of addition and subtraction	
Mental strategies for addition and subtraction	
Use formal methods for addition of integers	
Use formal methods for addition of decimals	
Use formal methods for addition of integers Use formal methods for addition of decimals Use formal methods for subtraction of integers Use formal methods for subtraction of decimals	
Use formal methods for subtraction of decimals	
Choose the most appropriate method: mental strategies, formal written	or calculator
Calculate with money/Solve financial maths problems	
Choose the most appropriate method: mental strategies, formal written  Calculate with money/Solve financial maths problems  Solve problems involving time and the calendar (including timetables)	
Solve problems with frequency trees (and two way tables)	
Solve problems with bar charts and line charts	
Properties of multiplication and division	
Understand and use factors	
Understand and use multiples	
Multiply and divide integers and decimals by powers of 10	
H - Multiply by 0.1 and 0.01	
Convert metric units (length, weight and capacity)	
Use formal methods to multiply integers	
Use formal methods to multiply decimals	
Use formal methods to divide integers	
Multiply and divide integers and decimals by powers of 10  H - Multiply by 0.1 and 0.01  Convert metric units (length, weight and capacity)  Use formal methods to multiply integers  Use formal methods to divide integers  Use formal methods to divide decimals  Understand and use order of operations: Use order of operations with decimals	
Understand and use order of operations; Use order of operations with d	irected numbers
Estimate the answer to a calculation	

	aes	S	S	Find a fraction of a given amount
ns		ıge	<b>Amounts</b>	Use a given fraction to find the whole and/or other fractions
Fractions	and	nta	100	Find a percentage of a given amount using mental methods
rac	Ø	Percentages	A	Find a percentage of a given amount using a calculator
T.			of	H - Solve problems with fractions greater than 1 and percentages greater than 100%
	<u> </u>			Convert between mixed numbers and fractions
	0.			Add and subtract unit fractions with the same denominator
	Addition and Subtraction of Fractions			Add and subtract fractions with the same denominator
				Add and subtract fractions from integers expressing the answer as a single fraction
		Suc		Understand and use equivalent fractions
		ış:		Add and subtract fractions where denominators share a simple common multiple
	pu	ī		Add and subtract fractions with any denominator
	2			Add and subtract improper fractions and mixed numbers
	tio			Use fractions in algebraic contexts
	Addii			Use equivalence to add and subtract decimals and fractions
			H - Add and subtract simple algebraic fractions	
				Understand and use letter and labelling conventions including those for geometric figures
	g	2		Draw and measure line segments including geometric figures
	Jsir	tio		Understand angles as a measure of turn
	d L	ota		Classify angles
	Measuring and Using Geometric Notation		Measure angles up to 180 degrees. Draw angles up to 180 degrees.	
			Draw and measure angles between 180 and 360 degrees	
1			Identify parallel and perpendicular lines.	
			Recognise types of triangle	
	Ž	G		Recognise types of quadrilaterals
				Identify polygons up to decagons.
				Understand and use the sum of angles at a point
				Understand and use the sum of angles on a straight line
	20	ש		Understand and use the equality of vertically opposite angles
	2	5		Know and apply the sum of angles in a triangle
	Š	3		Know and apply the sum of angles in a quadrilateral
	B	Re		Solve angle problems using properties of triangles and quadrilaterals
	ŗ	2		Solve complex angle problems
	ğ	Developing Geometric Reaso		Solve problems in the context of perimeter
	20			Solve problems using the area of rectangles and parallelograms
	Č			Solve problems using the area of triangles
	ino			H - Solve problems using the area of trapezia
	2			H - Convert metric units of area
	97			H - Find and use the angle sum of any polygon
	0			H - Investigate angles in parallel lines
				H - Understand and use parallel line angle rules
				H - Use known facts to obtain simple proofs