Term 1									
		1. Seq							
	Describe and continue a sequence given diagrammatically and Predict and check the next term(s) of a sequence	Represent sequences in tabular and graphical forms	Recognise the difference between linear and non-linear sequences, Continue numerical linear sequences and Continue numerical non-linear sequences	Explain the term- to-term rule of numerical sequences in words and H - Find missing numbers within sequences	Given a numerical input, find the output of a single function machine and Use inverse operations to find the input given the output	Use diagrams and letters to generalise number operations and Use diagrams and letters with single function machines			
	2. Algebraic Notation								
Find the function machine given a simple expression	Substitute values into single operation expressions	Find numerical inputs and outputs for a series of two function machines and Use diagrams and letters with a series of two function machines	Find the function machine given a two-step expression; Substitute values into two-step expressions	Generate sequences given an algebraic rule	Represent one- and two-step functions graphically	Understand the meaning of equality			
3	B. Equalit	y and Eq	<u>uivalenc</u>	<u>e</u>					
Understand and use fact families, numerically and algebraically	Solve one-step linear equations involving addition and subtraction using inverse operations	Solve one-step linear equations involving multiplication and division using inverse operations	Understand the meaning of like and unlike terms	Understand the meaning of equivalence and Simplify algebraic expressions by collecting the like term using the ≡ symbol	Recognise the place value of any digit in an integer up to one billion and Understand and write integers up to one billion in words and figures	Work out intervals on a number line and Position integers on a number line			
	4. Place Value and Ordering Numbers								
Round intervals to the nearest power of 10	Compare two numbers using =, ≠, <, >, ≤ and ≥ and Order a list of integers and Compare and order any number up to one billion	Find the range of a set of numbers and Find the median of a set of numbers	Understand place value for decimals and position decimals on a number line	Round a number to 1 significant figure		H - Investigate negative powers of 10 and H - Write decimals in the form A x 10^n			
Represent tenths and hundredths an diagrams  Interchange between fractional a decimal number lines, Convert be fractions and decimals - tenths a hundredths and Convert between fractions and decimals - fifths an quarters		es, Convert between als - tenths and overt between	H - Convert between fractions and decimals - eighths and thousandths	Understand the meaning of percentage using a hundred square					
5. FDP Equivalence									

Convert fluency between simple fractions, decimals and percentages	Use and interpret pie charts	Represent any fraction as a diagram and Represent fractions on number lines	Identify and use simple equivalent fractions and Simplify fractions (no small step on this - but this is in the assessment)	Understand fractions as division	Convert fluently between FDP and H - Explore fractions above one, decimals and percentages	Properties of addition and subtraction and mental strategies for addition and subtraction		
6. Solving Problems with Addition/ Subtraction								
Use formal methods for addition of integers and use formal methods of addition of decimals	Use formal methods for subtraction of integers and use formal methods for subtraction of decimals	Choose the most appropriate method: mental strategies, formal written or calculator	Solve problems in the context of perimeter	Solve financial maths problems	Solve problems involving tables and timetables	Solve problems with frequency trees		
	Term 2							
Solve problems with bar and line charts	Add and subtract numbers given in standard form	Properties of multiplication and division	Understand and use		Multiply and divide integers and decimals by powers of 10	Multiply by 0.1 and 0.01		
<u>7.</u>	7. Solving Problems with Multiplication/ Division							
Convert metric units	Use formal methods to multiply integers and Use formal	Use formal methods to divide integers and use formal methods to	Understand and use order of operations	Solve problems using the area of rectangles and parallelograms	Solve problems using the area of triangles	Solve problems using the area of trapezia		
		8. Fract	ions and	Percent	ages of A	<u>Amounts</u>		
Solve problems using the mean	Explore multiplication and division in algebraic	Find a fraction of a given amount	Use a given fraction to find the whole and/or other fractions	Find a percentage of a given amount using mental methods	Find a percentage of a given amount using a calculator	Solve problems with fractions greater than 1 and percentages		
Understand and use representations of directed numbers and Order directed numbers using lines and appropriate symbols and perform calculations that	Add directed numbers and Subtract directed							
CIUSS ZEIU	9. Operations and Equations with							
		Dire	cted Nur	<del>-</del>		II. days i		
	Multiplication of directed numbers and multiplication and division of	Use a calculator for directed number calculations and	Evaluate algebraic expressions with directed number	Introduction to two- step equations and solve two step equations	Understand that positive numbers have more than one square root	Understand representations of fraction and convert between		

10 Addition and Cubtraction of Exections								
10. Addition and Subtraction of Fractions								
Add and subtract unit fractions with the same denominator and	Add and subtract fractions from integers expressing the	Understand and use equivalent fractions	Add and subtract fractions where denominators share a simple	Use fractions in algebraic contexts	Use equivalence to add and subtract decimals and fractions	Add and subtract simple algebraic fractions		
	Term 3							
11. Cons	11. Constructing, Measuring and Using Geometric Notation							
Understand and use letter and labelling conventions including those for geometric figures and Draw and measure line segments including geometric figures	Understand angles as a measure of turn and Classify angles	Measure angles up to 180 degrees. Draw angles up to 180 degrees. and Draw and measure angles between 180 and 360 degrees	Identify parallel and perpendicular lines.	Recognise types of triangle	Identify polygons up to decagons.	Recognise types of quadrilaterals		
Construct triangles using SSS	Construct triangles using SSS, SAS and ASA	Construct more complex polygons	Interpret simple pie proportion, Interpre protractor and Draw	t pie charts using a	Understand and use the sum of angles at a point and Understand and use the sum of angles on a straight line	Understand and use the equality of vertically opposite angles		
<u>11</u>	12. Developing Geometric Reasoning							
Know and apply the triangle, Know and a angles in a quadrila angle problems usir triangles and quadri	apply the sum of teral and Solve ng properties of	Solve complex angle problems	H - Find and use the angle sum of any polygon	H - Investigate angles in parallel lines and H - Understand and use parallel line angle rules	H - Use known facts to obtain simple proofs			
13. Developing Number Sense								
	Know and use mental addition and subtraction strategies for integers, Know and use mental multiplication and division strategies for integers and Know and use mental strategies for decimals		Know and use mental strategies for fractions	Use factors to simplify calculations	Use estimation as a method for checking mental calculations	Use known number facts to derive other facts and Use known algebraic facts to derive other facts		
14. Sets and Probability								
Know when to use a mental strategy, formal written method or a calculator	Identify and represent sets	Interpret and create Venn diagrams	Understand and use the intersection of sets and Understand and use the union of sets	H - Understand and use the complement of sets	Know and use the vocabulary of probability	Generate sample spaces for single events and Calculate the probability of a single event		

		15. Prime numbers and Proof					
Understand and use the probability scale	Know that the sum of probabilities of all possible outcomes is 1	Find and use multiples and Identify factors of numbers and expressions	Recognise and identify prime numbers and Recognise square and triangular numbers	Find common factors of a set of numbers including the HCF and Find common multiples of a set of numbers including the LCM	Write a number as a product of its prime factors and H - Use a Venn diagram to calculate the HCF and LCM	Make and test conjectures and Use counterexamples to disprove a conjecture	