

Curriculum Design 2023-24

			Maths			
	Te	erm1	Те	rm2	Term3	
	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
Theme	Algebraic Thinking	Place Value and Proportion	Applications of Number	Directed Number	Lines and Angles	Reasoning with Number
Concept			Problem Solving, Critical T	hinking & Numerical Awareness		
7 Skills Knowledge	Sequences: Describe and continue sequences Predict and check next term(s) Sequences in a table and graphically Linear and non-linear sequences Continue linear sequences Continue non-linear sequences Explain the term-to-term rule Find missing term(s) Understand and use algebraic notation Given the numerical input, find the output of a single function machine Use inverse operations to find the input given the output Use diagrams and letters with single function machines Find the function machines 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 Use diagrams and letters with a series of two function machines Find the function machines Use diagrams and letters with a series of two function machines Find the function machines given a two-step expression Substitute values into two step expressions Generate sequences given an algebraic rule Represent on and two-step functions graphically Equality and Equivalence Understand the meaning of equality Understand and use fact	Place value and ordering Integers and decimals Recognise the place value of any number in an integer up to one billion Understand and write integers up to one billion in words and figures Work out intervals on a number line Position integers on a number line Round integers to the nearest power of ten Compare two numbers using =,=,<,>,≤,≥ Order a list of integers Find the range of a set of numbers Find the median of a set of numbers Understand place value for decimals Position decimals on a number line Compare and order any number up to one billion Round a number to 1 significant figure Write 10,100, 1000 etc. as powers of ten Write position integers in the form A x 10n Investigate negative powers of ten Write decimals in the form A x 10n Fraction, decimal and percentage equivalence Represent tenths and hundredths as diagrams Represent tenths and hundredths on number line Interchange between fractional	Solving problems with addition and subtraction 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 subtraction of integers Use formal methods for subtraction of integers 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 Solve problems with bar charts	Operations and equations with directed number Understand and use representations of directed numbers Order directed numbers using lines and appropriate symbols Perform calculations that cross zero Add directed numbers Subtract directed numbers Multiplication of directed numbers Multiplication and division of directed numbers Use a calculator for directed number calculations Evaluate algebraic expressions with directed numbers Introduction to two-step equations Solve two step equations Use order of operations with directed numbers Root of positive numbers Explore higher power and roots Addition and subtraction of fractions Convert between mixed number and fractions Add and subtract unit fractions with the same denominator Add and subtract fractions with the same denominator Add and subtract fractions from integers expressing the answer as a single fraction Understand and use equivalent fractions Add and subtract fractions where denominators share a simple common multiple Add and subtract fractions with any denominator	Constructing, measuring, and using geometric notion Understand and use letter and labelling conventions including those for geometric figures Draw and measure line segments including geometric figures Understand angles as a measure of turn Classify angles Measure angles up to 180° Draw and measure angles between 180° and 360° Identify perpendicular and parallel lines Recognise types of triangles Recognise types of quadrilateral Identify polygons up to a decagon Construct triangles using SSS Construct triangles using SSS, SAS, and ASA Construct more complex polygons Interpret simple pie charts using proportion Interpret pie charts using a protractor Draw pie charts Developing geometric reasoning Understand and use the sum of angles at a point Understand and use the equality of vertically opposite angles Know and apply the sum of angles in a triangle Know and apply the sum of angles in a triangle Know and apply the sum of angles in a quadrilateral Solve angle problems using properties of triangles and quadrilaterals Solve complex angle problems Find and use the angle sum of any	Developing number sense Know and use mental addition and subtraction strategies for integers Know and use mental multiplications and division strategies for integers Know and use mental arithmetic strategies for decimals Know and use mental arithmetic 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 Use known algebraic facts to derive other facts Know when to use a mental strategy, formal written method or a calculator Sets and Probability Identify the represent sets Interpret and create Venn diagrams Understand and use the intersection of sets Understand and use the complement of a set Know and use the vocabulary of probability Prime numbers and proof Find and use multiples Identify factors of numbers and expressions Recognise and identify prime



	Wider	Solve one-step linear equations involving +/-using inverse operations Solve one-step linear equations involving x/- using inverse operations Understand the meaning of like and unlike terms Understand the meaning of equivalence Simply algebraic expressions by collecting like terms using the = symbol.	Convert between fractions and decimals – tenths and hundredths Convert between fractions and decimals – fifths and quarters Convert between fractions and decimals – eighths and thousandths Understand the meaning of percentage using a hundred square Convert fluently between simple fractions, decimals and percentages Use and interpret pie charts Represent any fraction as a diagram Represent fractions on number lines Identify and use simple equivalent fractions Understand fractions as division Convert fluently between fractions, decimals and percentages Explore fractions above one, decimals and percentages.	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 Solve problems using the mean Explore multiplication and division in algebraic expressions Fractions & percentages of amounts 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 percentage greater than 100%	Use fractions in algebraic contexts	Understand and use parallel line angle rules Use known facts to obtain simple proofs	Recognise square and triangle numbers Find common factors of a set of numbers including HCF Find common multiples of a set of numbers including the LCM Write a number as a product of its prime factors Use a Venn diagram to calculate the HCF and LCM Make and test conjectures Use counterexamples to disprove a conjecture	
	Curriculum						Problem Solving, Critical	
	Theme	Proportional Reasoning	Representations	Algebraic Techniques	Developing Number	Developing Geometry	Thinking & Numerical Awareness	
	Concept	Problem Solving, Critical Thinking & Numerical Awareness						
8	Skills Knowledge	Understanding the meaning and representation of ratio. Understand and use ratio notation. Solve problems involving ratios of the form 1:n or n:1 Solve proportional problems involving the ratio m:n Divide a value into a given ratio. Express ratios in their simplest integer form H - Express ratios in the form 1:n Compare ratios and related fractions. Understand pi as the ratio between diameter and circumference. H - Understand gradient of a line as a ratio	Working in the cartesian plane Work with coordinates in all four quadrants Identify and draw lines that are parallel to the axes Recognise and use the line y=x Recognise and use the line y=kx Recognise and use lines of the form y=x+a Link y=kx to direct proportion problems H - Explore the gradient of the line y=kx Recognise and use lines of the form y=x+a Explore graphs with negative gradients (y=-kx, y=a-x, x+y=a) Link graphs to linear sequences	Brackets, equations and inequalities Form algebraic expressions Use directed number with algebra Multiply out a single bracket Factorise into a single bracket Expand multiple single brackets and simplify H - Expand a pair of binomials Solve equations, including with brackets Form and solve equations with brackets Understand and solve simple inequalities Form and solve inequalities H - Solve equations and inequalities with unknowns on both sides H - Form and solve equations and inequalities with unknowns on both sides	Convert between decimals and percentages more than 1/100% Percentage decrease with a multiplier Calculate percentage increase and decrease using a multiplier Express one number as a fraction or a percentage of another without a calculator Express one number as a fraction or a percentage of another using calculator methods Work with percentage change Choose appropriate methods to solve percentage problems H - Find the original amount given the percentage more than 100%	Angles in parallel lines and polygons REVIEW STEP - Understand basic angle rules and notation Investigate angles between parallel lines and the transversal Identify and calculate with alternate and corresponding angles Identify and calculate with cointerior, alternate and corresponding angles Solve complex problems with parallel line angles Construct triangles and special quadrilaterals Identify and calculate with sides and angles in special quadrilaterals. H - Understand and use the properties of diagonals of quadrilaterals	The Data Handling Cycle Set up a statistical enquiry Design and criticise questionnaires Draw and interpret multiple bar charts Draw and interpret pie charts Draw and interpret line graphs Choose the most appropriate diagram for a given set of data Represent and interpret grouped quantitative data Find and interpret the range Compare distributions using charts Identify misleading graphs Measures of Location Understand and use the mean, median and mode	



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Plans and elevations Foundation Geometry 3 one event				Evaluate Powers	iorm	· ·	Form delier Courses 2	Foundation Statistics 2	•
					<u> </u>	rians and elevations	roundation Geometry 3	<u> </u>	one event



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	Understanding Squares, Cubes and Roots, reciprocals Product of prime factors HCF and LCM Worded problems Apply systematic listing strategies Foundation Number 2 Multiplication and Division of Integers Using place value/related calculations Calculations with decimals Find a % Increase/ decrease by a percentage inc. using a multiplier Percentage Change Foundation Number 3 Simplifying ratio including 1:n, n:1 Write ratios as fractions Divide a quantity (whole amount, part or difference) into a given ratio Proportion and recipes Foundation Number 4 Equivalent Fractions Simplification of Fractions Finding a fraction of an amount Ordering fractions, decimals and positive and negative integers Changing fractions to decimals Addition/subtraction of Fractions Multiplication/ division of Fractions Bank statements Profit and loss	Foundation Algebra 1 Algebraic notation and collecting like terms Laws of indices with algebra Expanding single brackets Factorising into single brackets Expand and simplify double brackets Foundation Algebra 2 Substitution Using function machines Solving equations Forming equations Solving linear inequalities inc. use of a number line Generating a sequence Finding the nth term of linear sequences Foundation Algebra 3 Solve coordinate problems Drawing straight line graphs from a table Gradients of lines inc. identifying parallel lines Understanding y=mx+c Drawing straight line graphs from y=mx+c Speed Distance Time Distance-time graphs	Nets Parallel lines and angles Angles in a triangle Properties of special triangles and quadrilaterals Angles in regular polygons Measuring and drawing angles	Metric Conversions Perimeter Area of rectangle, triangle, parallelogram, trapezium Properties of a circle Area and circumference of circles inc. answers in terms of Pi Compound units (link with ratio) Foundation Geometry 4 Pythagoras' theorem Calculating with column vectors	Averages and the range for listed data Averages from a table including estimating Foundation Statistics 3 Scatter graphs- include causation/correlation Pie charts Bar charts, pictograms and vertical line charts	
Higher Skills Inowledge Concept	Higher Number 1 Factors, Multiples and Primes Evaluate Powers Understanding Squares, Cubes and Roots, reciprocals Product of prime factors HCF and LCM Worded Problems	Higher Number 5 Order of operations Rounding including significant figures Estimation Finding upper and lower bounds Error Intervals Calculations with upper and lower bounds	Higher Algebra 4 Drawing quadratic graphs Solving quadratic equations by factorisation The difference of two squares Roots and Turning Points Solving quadratic equations - Formula	Higher Geometry 1 Plans and elevations Parallel lines and angles Angles in a triangle Properties of special triangles and quadrilaterals Solving equations in angle problems Angles in regular polygons	Higher Geometry 3 Metric Conversions Perimeter Area of rectangle, triangle, parallelogram, trapezium Area of compound shapes Area and circumference of circles inc. answers in terms of Pi Compound units (link with ratio)	Higher Statistics 3 Drawing and Interpreting Pie Charts Drawing and interpreting scatter graphs-include causation/correlation Cumulative frequency Higher Statistics 4



Laws of indices - multiplying and dividing Laws of indices - fractional and negative

Higher Number 2

Multiplication and Division of Integers
Calculations with decimals
Find a %
Increase/ decrease by a percentage inc. using a multiplier
Percentage Change
Simple Interest
Compound interest and depreciation
Reverse percentages

Higher Number 3

Simplifying ratio
Write ratios as fractions
Write ratios in the form 1:n,
n:1
Divide a quantity (whole
amount, part or difference)
into a given ratio
Proportion and recipes

Higher Number 4

Simplify and find equivalent fractions Ordering fractions, decimals and positive and negative integers Value for Money/Best Buys Finding a fraction of an amount Fractions 4 operations (+ - x Changing fractions to decimals Multi step problems using %, fractions and ratios with standard and compound units (eg time, length, prices, area, volume, mass, speed) Financial Maths understand terms such as profit/loss, cost price, debit and credit

Writing numbers in standard form
Calculating with numbers in standard form

Higher Number 6

Simplifying and calculating with surds
Non-algebraic direct and inverse proportion

Higher Algebra 1

Expand and simplify algebraic expressions including double and triple brackets
Factorising including quadratic
Solving linear equations
Forming equations
4 operations with algebraic fractions
Solving linear inequalities
Changing the subject of a formula
Laws of indices with algebra
Recurring decimals into fractions

Higher Algebra 2

Substitution
Identifying and using
sequences - Fibonacci
/Geometric/Quadratic
Finding the nth term of linear
sequences
Finding the nth term of
quadratic sequences

Higher Algebra 3

Drawing straight line graphs from a table
Understanding y=mx+c
Drawing straight line graphs from y=mx+c
Gradients of lines inc. identifying parallel and perpendicular lines
Finding the equation of a straight line
Parallel and perpendicular gradients
Distance-time graphs
Function Notation

Simultaneous linear equations Matching coefficients in identities

Graphs of cubic, exponential

Higher Algebra 5

(0,0)

and reciprocal functions
Using real life graphs such as growth/decay
Graphs of trigonometric functions
Use graphs to solve equations
Equation of circle with centre

Triangle constructions inc constructing angle of 60° Perpendicular bisector Angle bisector

Higher Geometry 2

Translations
Rotations
Reflections
Enlargements
Invariant points
Similar shapes inc
fractional/negative scale factors
Using congruent triangles

Using density formula

Higher Geometry 4

Pythagoras' theorem
Pythagoras in 3D
Trigonometry - SOH CAH TOA
Trigonometry in 3D
Calculations with column vectors
Calculations with vectors using algebra

Higher Statistics 1

Types of data and sampling Sample space diagrams Frequency and Two-way tables Frequency Trees (link with ratio)

Higher Statistics 2

Averages and the range for listed data
Reverse mean
Averages from a table including estimating
Problem solving with averages

Probability of single events Probability of multiple events including sample space diagrams Mutually exclusive events Relative and Theoretical Frequency Probability trees for independent events



)	Wider Curriculum						
	Theme	Number	Number & Algebra	Algebra	Algebra & Geometry	Geometry	Statistics
	Concept			Problem Solving, Critical T	hinking & Numerical Awareness		
10	Skills Knowledge Concept	Foundation Number 1 Number Sense inc commutative law Factors, Multiples and Primes Evaluate Powers Understanding Squares, Cubes and Roots, reciprocals Product of prime factors HCF and LCM HCF and LCM Worded Problems Apply systematic listing strategies Laws of indices- multiplying and dividing Laws of indices: negative Foundation Number 2 Multiplication and Division of Integers Calculations with decimals Find a % Increase/ decrease by a percentage inc. using a multiplier Percentage Change Simple Interest Compound interest and depreciation Reverse percentages Foundation Number 3 Simplifying ratio Write ratios as fractions Write ratios in the form 1:n, n:1 Divide a quantity (whole amount, part or difference) into a given ratio Proportion and recipes Non-algebraic direct and inverse proportion including graphical representations Foundation Number 4 Finding a fraction of an amount Simplification of Fractions	Foundation Number 5 Order of operations Rounding including significant figures Estimation Writing numbers in standard form Calculating with numbers in standard form Upper and Lower Bounds Error Intervals Truncation Foundation Algebra 1 Algebraic notation and collecting like terms Laws of indices with algebra Expanding single brackets Factorising into single brackets Expand and simplify double brackets Factorising into double brackets (a=1) The difference of two squares Foundation Algebra 2 Substitution Using function machines Solving equations Forming equations Forming equations Solving linear inequalities inc. use of a number line Generating a sequence Finding the nth term of linear sequences Recognise and use Fibonacci and geometric sequences Changing the subject of a formula Foundation Algebra 3 Solve coordinate problems Drawing straight line graphs from a table Gradients of lines inc. identifying parallel lines Understanding y=mx+c Drawing straight line graphs from y=mx+c	Foundation Algebra 4 Drawing quadratic graphs Roots and Turning Points Simultaneous linear equations Sketching quadratic graphs Solving quadratic equations by factorisation Foundation Geometry 1 Plans and elevations Nets Parallel lines and angles Angles in a triangle Properties of special triangles and quadrilaterals Angles in regular polygons Measuring and drawing angles Triangle constructions inc constructing angle of 60° Perpendicular bisector Angle bisector Solving equations in angle and shape problems Bearings Loci	Foundation Geometry 2 Symmetries Translations Rotations Reflections Enlargements Similar shapes inc fractional scale factors Using congruent triangles Foundation Geometry 3 Metric Conversions Perimeter Area of rectangle, triangle, parallelogram, trapezium Properties of a circle Area and circumference of circles inc. answers in terms of Pi Compound units (link with ratio) Surface area of prisms Volume of a prism inc cylinder Surface area and volume of spheres, pyramids, cones Using density formula	Foundation Geometry 4 Pythagoras' theorem Calculating with column vectors Trigonometry - SOH CAH TOA Exact values of Sin/Cos/Tan 0/30/45/60/90 Foundation Statistics 1 Types of data and sampling Questionnaires Frequency and Two way tables Frequency Trees (link with ratio) Foundation Statistics 2 Averages and the range for listed data Averages from a table including estimating Spread Reverse mean Averages problem solving Foundation Statistics 3 Scatter graphs- include causation/correlation Pie charts Bar charts, pictograms and vertical line charts Time Series	Foundation Statistics 4 Simple probability Mutually exclusive events Relative and Theoretical Frequency Sample space diagrams and probability of more than one event Set notation Venn Diagrams Probability Trees for independent events



Divide a quantity (whole

into a given ratio

amount, part or difference)

quadratic

Solving linear equations

Forming equations

circle

Equivalent Fractions Speed Distance Time Changing fractions to Distance-time graphs decimals Solving simultaneous Ordering fractions, decimals equations graphically and integers Sketch graphs of simple cubic Addition/subtraction of and reciprocal functions Fractions Multiplication/ division of Fractions Bank statements Profit and loss Money problems including value for money Multi step problems using %, fractions and ratios with standard and compound units (eg time, length, prices, area, volume, mass, speed) **Higher Statistics 3** Higher Number 1 Higher Number 5 Higher Algebra 4 Higher Geometry 1 Higher Geometry 4 Factors, Multiples and Order of operations Drawing quadratic graphs Plans and elevations Pythagoras' theorem Drawing and Interpreting Rounding including significant Pie Charts Primes Solving quadratic equations by Parallel lines and angles Pythagoras in 3D **Evaluate Powers** factorisation Angles in a triangle Trigonometry - SOH CAH TOA figures Drawing and interpreting Understanding Squares, Estimation The difference of two squares Properties of special triangles Trigonometry in 3D scatter graphs-include and quadrilaterals Cubes and Roots, Finding upper and lower Solving quadratic equations -Calculations with column vectors causation/correlation reciprocals bounds Formula Solving equations in angle Calculations with vectors using Interpreting line graphs Cumulative frequency Product of prime factors Error Intervals Simultaneous linear equations problems algebra HCF and LCM Worded Writing numbers in standard Matching coefficients in Angles in regular polygons Exact values of Sin/Cos/Tan Box plots 0/30/45/60/90 **Problems** identities Triangle constructions inc Drawing Histograms Laws of indices - multiplying Calculating with numbers in Complete the Square and constructing angle of 60° Sine and cosine rules Interpreting frequencies and dividing Laws of indices standard form solving Perpendicular bisector Areas of triangles using 1/2absinC from a histogram Calculations with upper and - fractional and negative **Roots and Turning Points** Angle bisector Vectors and ratio problems Finding averages and Combinations/product rule lower bounds Sketching quadratic graphs Proving vectors are parallel or quartiles from a histogram Loci Truncation Proof of a quadratic expression Bearings (not including form a straight line for counting always being positive trigonometry) Higher Statistics 4 Solving algebraic fraction Using circle theorems Higher Statistics 1 Probability of single events Higher Number 2 Higher Number 6 Proving circle theorems Types of data and sampling Probability of multiple Multiplication and Division Simplifying and calculating equations resulting in a Sample space diagrams events including sample of Integers with surds quadratic Calculations with decimals Non-algebraic direct and Quadratic inequalities Higher Geometry 2 Frequency and Two-way tables space diagrams Translations Find a % inverse proportion Simultaneous equations with a Frequency Trees Mutually exclusive events Increase/ decrease by a Graphs of direct and inverse quadratic Rotations Relative and Theoretical percentage inc. using a Reflections Higher Statistics 2 proportion Frequency multiplier Algebraic direct and inverse Averages and the range for listed Probability trees for Enlargements Percentage Change Higher Algebra 5 Invariant points independent events proportion data Simple Interest Expanding brackets with Graphs of cubic, exponential Similar shapes inc Reverse mean Probability trees for Compound interest and surds and reciprocal functions fractional/negative scale factors Averages from a table including conditional probabilities Set Using real life graphs such as Using congruent triangles depreciation Rationalising the estimating notation Similar shapes- area and Problem solving with averages Putting sets into Venn Reverse percentages denominator growth/decay volume scale factor problems Graphs of trigonometric diagrams Proving triangles are congruent Probability in Venn **Higher Number 3** Higher Algebra 1 functions Enlargement of negative scale Simplifying ratio Expand and simplify algebraic Use graphs to solve equations diagrams including conditional probabilities Write ratios as fractions expressions including double Equation of circle with centre factors and triple brackets Transformations - Combined Write ratios in the form 1:n. (0,0)Probability trees with Factorising including Equation of a tangent to a algebra

Higher Geometry 3

Metric Conversions

Perimeter



Proportion and recipes Advanced Ratio Approaches

Higher Number 4

fractions Ordering fractions, decimals and positive and negative integers Value for Money/Best Buys

Simplify and find equivalent

Finding a fraction of an amount Fractions 4 operations (+ - >

Changing fractions to decimals

Multi step problems using %, fractions and ratios with standard and compound units (eg time, length, prices, area, volume, mass, speed) Financial Maths understand terms such as profit/loss, cost price, debit and credit

Simplification of Fractions Ordering fractions, decimals and positive and negative integers

Value for Money/Best Buys Finding a fraction of an amount

Addition/subtraction of Fractions Multiplication/ division of

Fractions Changing fractions to

decimals Recurring decimals into fractions

Multi step problems using %, fractions and ratios with standard and compound units (eg time, length, prices, area, volume, mass, speed)

Financial Maths understand terms such as profit/loss, cost price, debit and credit

4 operations with algebraic fractions Solving linear inequalities Changing the subject of a formula Laws of indices with algebra Recurring decimals into fractions Factorise Quadratics including $ax^2 + bx + c$

Rearranging formulae with factorising Represent the solution set on a number line, using set notation and on a graph Solve equations involving algebraic fractions - linear Solving equations from ratio

Higher Algebra 2

problems Simplifying

algebraic fractions

Substitution Identifying and using sequences - Fibonacci /Geometric/Quadratic Finding the nth term of linear sequences Finding the nth term of quadratic sequences Using an iterative formula Ratio to an equation Algebraic proof involving odd, even, consecutive numbers, and divisibility

Higher Algebra 3

Drawing straight line graphs from a table Understanding y=mx+c Drawing straight line graphs from y=mx+cGradients of lines inc. identifying parallel and perpendicular lines Finding the equation of a straight line Parallel and perpendicular gradients Distance-time graphs Function Notation Graphing straight line inequalities and finding regions Solving simultaneous equations graphically Velocity-time graphs

Inverse Functions

Transformation of functions y = f(x) + a, y = f(x+a), y=-f(x),y=f(-x) ONLY

Gradients as a rate of change (not differentiation)

Calculate or estimate the area under a graph (not integration) Solving equations when x is the power

Area of rectangle, triangle, parallelogram, trapezium Area of compound shapes Area and circumference of circles inc. answers in terms of

Compound units (link with ratio)

Using density formula Area and perimeter of sectors Surface area of prisms Volume of a prism inc cylinder Surface area and volume of Spheres, Pyramids, Cones Surface area and volume of a frustum Problem solving with density Rate of change/flow with

volume



L			Composite Functions							
	Wider									
	Curriculum									
	Theme	Number	Algebra	Geometry	Statistics	Revision Topics	Revision Topics			
	THETHE	7 (4.11.55)	855.1		J 121131165	The state of the s				
	Concept			Problem Solving, Critical Ti	hinking & Numerical Awareness					
		Foundation Number 1								
		Number Sense inc		Foundation Geometry 1						
		commutative law	Foundation Algebra 2	Plans and elevations						
		Factors, Multiples and	Substitution	Nets						
		Primes	Using function machines	Parallel lines and angles	Foundation Statistics 1					
		Evaluate Powers	Solving equations	Angles in a triangle	Types of data and sampling					
			Forming equations	Properties of special triangles	Questionnaires					
		Understanding Squares, Cubes and Roots,	Solving linear inequalities inc.	and quadrilaterals	Frequency and Two way tables					
		reciprocals	use of a number line	Angles in regular polygons	Frequency Trees (link with					
		Product of prime factors	Generating a sequence	Measuring and drawing angles	ratio)					
		HCF and LCM	Finding the nth term of linear							
		HCF and LCM Worded		Triangle constructions inc	Foundation Statistics 2					
		Problems	sequences Recognise and use	constructing angle of 60°	Averages and the range for					
			Fibonacci and geometric	Perpendicular bisector	listed data					
		Apply systematic listing	sequences	Angle bisector	Averages from a table including					
		strategies	Changing the subject of a	Solving equations in angle and	estimating					
		Laws of indices- multiplying	formula	shape problems	Spread					
		and dividing	Farm dation Almahua 2	Bearings	Reverse mean					
11		Laws of indices: negative	Foundation Algebra 3	Loci	Averages problem solving	The fermale on France				
- 11		Foundation Number 2	Solve coordinate problems	Farm dation Coometure 2		The focus is on Exam				
	Skills		Drawing straight line graphs	Foundation Geometry 2	Foundation Statistics 3	preparation which includes key				
	Knowledge	Multiplication and Division	from a table	Symmetries Translations	Scatter graphs- include	exam topics, bespoke revision				
	Concept	of Integers Calculations with decimals	Gradients of lines inc.		causation/correlation	materials and exam paper				
		Find a %	identifying parallel lines	Rotations	Pie charts	practice.				
		Increase/ decrease by a	Understanding y=mx+c	Reflections	Bar charts, pictograms and					
		percentage inc. using a	Drawing straight line graphs from y=mx+c	Enlargements	vertical line charts					
			Speed Distance Time	Similar shapes inc fractional scale factors	Time Series					
		multiplier Percentage Change	Distance-time graphs	Using congruent triangles	Foundation Statistics 4					
		Simple Interest	Solving simultaneous	Osing congruent triangles	Simple probability					
		Compound interest and		Foundation Geometry 3	Mutually exclusive events					
		depreciation	equations graphically Sketch graphs of simple cubic	Metric Conversions	Relative and Theoretical					
		•		Perimeter	Frequency					
		Reverse percentages	and reciprocal functions	Area of rectangle, triangle,	Sample space diagrams and					
		Foundation Number 3	Foundation Algebra 4	parallelogram, trapezium	probability of more than one					
		Simplifying ratio	Drawing quadratic graphs	Properties of a circle	event					
		Write ratios as fractions	Roots and Turning Points	Area and circumference of	Set notation					
		Write ratios in the form 1:n,	Simultaneous linear equations	circles inc. answers in terms of	Venn Diagrams					
		n:1	Sketching quadratic graphs	Pi	Probability Trees for					
		Divide a quantity (whole	Solving quadratic equations	Compound units (link with	independent events					
		amount, part or difference)	by factorisation	ratio)						
		into a given ratio	by factorisation	Surface area of prisms						
		_		•						
		Proportion and recipes		Volume of a prism inc cylinder	1					



Non-algebraic direct and	Surface area and volume of		
inverse proportion including	spheres, pyramids, cones		
graphical representations	Using density formula		
Foundation Number 4 Finding a fraction of an amount Simplification of Fractions Equivalent Fractions Changing fractions to decimals Ordering fractions, decimals and integers Addition/subtraction of Fractions Multiplication/ division of Fractions Bank statements Profit and loss Money problems including value for money Multi step problems using %, fractions and ratios with standard and compound units (eg time, length, prices, area, volume, mass, speed)	Foundation Geometry 4 Pythagoras' theorem Calculating with column vectors Trigonometry - SOH CAH TOA Exact values of Sin/Cos/Tan 0/30/45/60/90		
Foundation Number 5 Order of operations Rounding including significant figures Estimation Writing numbers in standard form Calculating with numbers in standard form Upper and Lower Bounds Error Intervals Truncation			
Foundation Algebra 1 Algebraic notation and collecting like terms Laws of indices with algebra Expanding single brackets Factorising into single brackets Expand and simplify double brackets Factorising into double brackets (a=1) The difference of two squares			



Higher Number 1

Factors, Multiples and Primes **Evaluate Powers** Understanding Squares, Cubes and Roots, reciprocals Product of prime factors HCF and LCM Worded **Problems** Laws of indices - multiplying and dividing Laws of indices - fractional and negative Combinations/product rule for counting

Higher Number 2

Multiplication and Division of Integers Calculations with decimals Find a % Increase/ decrease by a percentage inc. using a multiplier Percentage Change Simple Interest Compound interest and depreciation Reverse percentages

Higher Number 3

Simplifying ratio Write ratios as fractions Write ratios in the form 1:n. Divide a quantity (whole amount, part or difference) into a given ratio Proportion and recipes Advanced Ratio Approaches

Higher Number 4

Simplify and find equivalent fractions Ordering fractions, decimals and positive and negative integers Value for Money/Best Buys Finding a fraction of an amount Fractions 4 operations (+ - > Changing fractions to decimals Multi step problems using %, fractions and ratios with

standard and compound

Higher Number 6

Simplifying and calculating with surds Non-algebraic direct and inverse proportion Graphs of direct and inverse proportion Algebraic direct and inverse proportion Expanding brackets with surds Rationalising the

Higher Algebra 1

Expand and simplify algebraic

denominator

expressions including double and triple brackets Factorising including quadratic Solving linear equations Forming equations 4 operations with algebraic fractions Solving linear inequalities Changing the subject of a formula Laws of indices with algebra Recurring decimals into fractions Factorise Quadratics including $ax^2 + bx + c$ Rearranging formulae with factorising Represent the solution set on a number line, using set notation and on a graph Solve equations involving algebraic fractions - linear Solving equations from ratio problems Simplifying algebraic fractions

Higher Algebra 2

Substitution Identifying and using sequences - Fibonacci /Geometric/Quadratic Finding the nth term of linear sequences Finding the nth term of quadratic sequences Using an iterative formula Ratio to an equation Algebraic proof involving odd, even, consecutive numbers, and divisibility

Higher Algebra 4

Drawing quadratic graphs Solving quadratic equations by factorisation The difference of two squares Solving quadratic equations -Formula Simultaneous linear equations Matching coefficients in identities Complete the Square and solving Roots and Turning Points Sketching quadratic graphs Proof of a quadratic expression always being positive Solving algebraic fraction equations resulting in a quadratic Quadratic inequalities

Simultaneous equations with a

Graphs of cubic, exponential

Higher Algebra 5

quadratic

and reciprocal functions Using real life graphs such as growth/decay Graphs of trigonometric functions Use graphs to solve equations Equation of circle with centre (0,0)Equation of a tangent to a circle Transformation of functions y =f(x) + a, y = f(x+a), y=-f(x),y=f(-x) ONLY Gradients as a rate of change (not differentiation) Calculate or estimate the area under a graph (not integration) Solving equations when x is the power

Higher Geometry 1

Plans and elevations Parallel lines and angles Angles in a triangle Properties of special triangles and quadrilaterals Solving equations in angle problems Angles in regular polygons Triangle constructions inc constructing angle of 60° Perpendicular bisector

Higher Geometry 4

Pythagoras' theorem Pythagoras in 3D Trigonometry - SOH CAH TOA Trigonometry in 3D Calculations with column vectors Calculations with vectors using algebra Exact values of Sin/Cos/Tan 0/30/45/60/90 Sine and cosine rules Areas of triangles using 1/2absinC Vectors and ratio problems Proving vectors are parallel or form a straight line

Higher Statistics 1

Types of data and sampling Sample space diagrams Frequency and Two-way tables Frequency Trees

Higher Statistics 2

Averages and the range for listed data Reverse mean Averages from a table including estimating Problem solving with averages

Higher Statistics 3

Drawing and Interpreting Pie Charts Drawing and interpreting scatter graphs-include causation/correlation Interpreting line graphs Cumulative frequency Box plots Drawing Histograms Interpreting frequencies from a histogram Finding averages and quartiles from a histogram

Higher Statistics 4

Probability of single events Probability of multiple events including sample space diagrams Mutually exclusive events Relative and Theoretical Frequency Probability trees for independent events Probability The focus is on Exam preparation which includes key exam topics, bespoke revision materials and exam paper practice.



units (eg time, length,

			Surface area and volume of a frustum Problem solving with density Rate of change/flow with			
			Volume of a prism inc cylinder Surface area and volume of Spheres, Pyramids, Cones			
			ratio) Using density formula Area and perimeter of sectors Surface area of prisms			
			Pi Compound units (link with			
			Area and circumference of circles inc. answers in terms of			
			parallelogram, trapezium Area of compound shapes			
			Perimeter Area of rectangle, triangle,			
		Composite Functions	Metric Conversions			
	Trunsumen.	Inverse Functions	Higher Geometry 3			
	lower bounds Truncation	equations graphically Velocity-time graphs	factors Transformations - Combined			
	standard form Calculations with upper and	regions Solving simultaneous	Proving triangles are congruent Enlargement of negative scale			
	Calculating with numbers in	inequalities and finding	scale factor problems			
	Writing numbers in standard form	Function Notation Graphing straight line	Using congruent triangles Similar shapes- area and volume			
	Error Intervals	Distance-time graphs	fractional/negative scale factors			
	Finding upper and lower bounds	Parallel and perpendicular gradients	Invariant points Similar shapes inc			
	Estimation	straight line	Enlargements			
	Rounding including significant figures	perpendicular lines Finding the equation of a	Rotations Reflections			
	Order of operations	identifying parallel and	Translations			
	Higher Number 5	from y=mx+c Gradients of lines inc.	Higher Geometry 2	Probability trees with algebra		
	and credit	Drawing straight line graphs	Proving circle theorems	probabilities		
	understand terms such as profit/loss, cost price, debit	from a table Understanding y=mx+c	trigonometry) Using circle theorems	Probability in Venn diagrams including conditional		
	speed) Financial Maths -	Drawing straight line graphs	Bearings (not including	Putting sets into Venn diagrams		
	prices, area, volume, mass,	Higher Algebra 3	Loci	probabilities Set notation		

trees for conditional

Angle bisector