

COMPASSION

COURAGE



Academic outline 2024-25

			Mathematics			
	Term 1 Aug-Oct	Term 2 Nov-Dec	Term 3 Jan-Feb	Term 4 Mar-Apr	Term 5 Apr-May	Term 6 Jun-Jul
Year 7:	Sequences Algebraic Notation Equality and Equivalence Home Learning White	Place Value and Ordering Numbers	Solving Problems with Addition/Subtraction Solving Problems with	Operations and Equations with Directed Numbers Addition and Subtraction	Constructing, Measuring and Using Geometric Notation	Developing Number Sense Sets and Probability
	Rose Maths Oak Academy link 1	FDP equivalence Home Learning White	Multiplication/Division Fractions and Percentages	of Fractions Home Learning White	Developing Geometric Reasoning	Prime Numbers and Proof
	Oak Academy link 2	Rose Maths Oak Academy link 1	of Amounts Home Learning White	Rose Maths Oak Academy link 1	Home Learning White Rose Maths	Home Learning White Rose Maths
		Oak Academy link 2	Rose Maths	Oak Academy link 2	Oak Academy link 1 Oak Academy link 2	Oak Academy link 1 Oak Academy link 2
			Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4			
Year 8:	Ratio and Scale Multiplicative Change Multiplying and dividing	Working in the Cartesian plane	Brackets, equations and inequalities	Fractions and Percentages Standard Index Form	Angles in parallel lines and polygons	The Data Handling Cycle Measures of Location
	fractions Home Learning White Rose Maths	Representing data Tables and probability	Sequences Indices	Number Sense <u>Home Learning White</u>	Area of trapezia and circles	Home Learning White Rose Maths
	Oak Academy link 1 Oak Academy link 2	Home Learning White Rose Maths	Home Learning White Rose Maths	Rose Maths Oak Academy link 1	Line symmetry and reflection	Oak Academy Link 1
	Oak Academy link 3	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 2 Oak Academy link 3	Home Learning White Rose Maths	
					Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	

Q E M S	CURIOSITY		COMPASSI	ON	COURAGE	QEMS
MPASSIO	Straight line graphs Forming and solving equations	Three-dimensional shapes	Numbers Using percentages	Deduction Rotation and Translation	Enlargement and Similarity	Probability Algebraic representation
	Testing Conjectures Home Learning White	Constructions and Congruency	Maths and Money	Pythagoras	Solving ratio and proportion problems	Revision
	Rose Maths		Home Learning White Rose Maths	Home Learning White	Rates	Home Learning White
	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Home Learning White Rose Maths	Oak Academy link 1 Oak Academy link 2	Rose Maths Oak Academy link 1	Home Learning White Rose Maths	Rose Maths Oak Academy link 1
	Suk Academy mik 5	Oak Academy link 1 Oak Academy link 2	Oak Academy link 3	Oak Academy link 2 Oak Academy link 3	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 2
Year 10 : GCSE HIGHER	Representing solutions of equations & inequalities	Congruence, similarity & enlargement	Angles and Bearings	Ratios & Fractions	Delving into data	Non-calculator methods
	Simultaneous Equation	Trigonometry	Working with circles	Percentages & Interest		Types of Number and sequences
	Home Learning White Rose Maths	Home Learning White Rose Maths	Vectors Home Learning White Rose Maths	Probability <u>Home Learning White</u> <u>Rose Maths</u>	Home Learning White Rose Maths	Indices & Roots
	Oak Academy link 1 Oak Academy link 2	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 1 Oak Academy link 2	Home Learning White Rose Maths
		Oak Academy mik 4	Oak Academy link 4			Oak Academy link 1 Oak Academy link 2 Oak Academy link 3
Year 10: GCSE	Decimals and Fractions	Approximations	Perimeter and Area	Volumes and Surface Areas of Prisms & Curved	Number and Sequences	Pythagoras' Theorem
FOUNDATION	Expressions and Formulae	Ratio, Speed and Proportion	Transformations	Shapes and Pyramids	Linear Inequalities	Measures and Scale Drawings
	Linear Equations	Angles	Linear Graphs	Charts, Tables and Averages	Probability and Events	Oak Academy link 1
	Oak Academy link 1 Oak Academy link 2	Oak Academy link 1 Oak Academy link 2	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 1 Oak Academy link 2	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Oak Academy link 2
		Oak Academy link 3 Oak Academy link 4				

Q E M S	CURIOSITY		COMPASSI	ON	COURAGE	QEMS
						Compassion
Year 11: GCSE HIGHER	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4 Oak Academy link 5	Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4	Reasoning Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4	Revision and Communication Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4	Revision	Exams
Year 11: GCSE FOUNDATION	Simultaneous Equations Percentages and Compound Measures Percentages and Variation Oak Academy link 1 Oak Academy link 2	Powers and Standard Form Quadratics Representation and Interpretation Oak Academy link 1 Oak Academy link 2 Oak Academy link 3	Non linear graphs Combined Events Constructions and Loci Congruence and Similarity Vectors Oak Academy link 1 Oak Academy link 2 Oak Academy link 3 Oak Academy link 4 Oak Academy link 5	Right angled triangles Revision Oak Academy link 1	Revision	Exams



COMPASSION

COURAGE



Curriculum overview

Subject	Mathematics	Year group	7					
		- '						
Vision statement:	At Landau Forte our curriculum exists to ensure all students regardless of background and ability have the opportunity to unlock their potential. We are committed to students being challenged from their previous key stage learning experiences. Our broad and balanced curriculum is ambitious, coherently planned and sequenced, and will provide the platform for preparing students with the foundations for examination success.							
	Our Curriculum Intent has been informed by a wide variety of researchers and is steeped our curriculum to empower all learners creating a pathway to success in university, their		ounsell summarises the aspiration of					
	'A curriculum exists to change the pupil, to give the pupil new power. One acid test for a to clamber into the discourse and practices of educated people, so that they gain powers		ver attaining or disadvantaged pupils					
	core values of Compassion, Courage I, spiritual and moral obligations.							
Curriculum intent:	All students acquire the mathematical life skills necessary for the world of work, no matter what their starting point is, catering for all abilities and backgrounds. We have a strong belief that all students can achieve in Maths. Students will be taught to have a firm understanding of number bonds and be confident in using non-calculator strategies for solving problems. Students will be stretched and challenged through problem solving tasks to develop resilience. Students are encouraged to show courage through attempting questions in environment where other students show compassion through a culture of being non-judgmental when questions are answered incorrectly. Students are also encouraged to show curiosity through asking questions and taking a genuine interest in the real life applications of the Maths that they are learning. This will be achieved by staff working together in planning lessons that allow ALL students to achieve/ exceed their potential through: Common lesson planning formats; Expert knowledge of the subject; Differentiated material; Regular use of AfL to assess progress in a lesson; Regular use of formal marking and feedback; Regular summative assessments to ensure appropriate progress and intervention.							
Threshold Concepts (TCs):	TC1 Algebraic manipulation - This concept involves recognising mathematical properties TC2 Number sense - This concept involves understanding the number system and how t TC3 Shape facts - This concept involves recognising the names and properties of geomet TC4 Multiplicative reasoning - This concept involves using ratio and proportion and under TC5 Representing and interpreting data - This concept involves interpreting, manipulatin TC6 Calculator skills - This concept involves fluent application of mathematical operation TC7 Understanding and calculating risk - This concept involves knowing the rules of probability.	hey are used in a wide variety of mathemary bry shapes and angles. Perstanding of reciprocals in real world apping and presenting data in various ways. This on a scientific calculator	atical ways					



CURIOSITY COMPASSION

COURAGE



KS2 National Curriculum summary:

The curriculum ensures that all pupils around England get the essential knowledge they need to become educated citizens. So, it doesn't matter which school or area children are studying at - they will develop the same fundamental maths skills. Included in this frame of work are curriculum aims, which pupils need to meet at the end of each school year. Children who want to expand their knowledge even further will get the opportunity to do so. But essentially, they will all start from basics by learning about the key topic areas covered in the national curriculum for KS2 maths.

The eight main maths areas, which are included in the national curriculum for maths throughout KS2 are:

- Number Number and Place Value
- Number Addition and Subtraction
- Number Multiplication and Division
- Number Fractions
- Measurement
- Geometry Properties of Shape
- Geometry Position and Direction (not included in year 3)
- Statistics

As pupils get to year 6, they would have developed a deep understanding of these maths concepts. That's why two additional topic areas are introduced to the curriculum, which are:

- Ratio and Proportion
- Year 6 Algebra

,	Q١	M	S
CURIOSITY	S	Z	

COMPASSION

COURAGE



Learner skills:	Critical thinking	Organisation	Collaboration	Adaptability	Oracy	Self-quizzing
	CRITICAL THINKING	ORGANISATION	COLLABORATION	ADAPTABILITY	ORACY	SELF QUIZZING
	Term 1 Aug-Oct	Term 2 Nov-Dec	Term 3 Jan-Feb	Term 4 Mar-Apr	Term 5 Apr-May	Term 6 Jun-Jul
The Big Question						
Big picture questions:	How do you find and generate patterns?	How can you write numbers in different ways?	What strategies do I need for different operations?	How do you work with fractions?	How do I use mathematical equipment accurately?	How can I use Venn diagrams to solve maths problems?
Content (Linked to TCs):	TC1 – Algebraic Manipulation TC2 – Number Sense TC6 – Calculator Skills Describe and continue a sequence given diagrammatically 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 Continue numerical non-linear sequences	TC2 – Number Sense TC6 – Calculator Skills Recognise the place value of any digit 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 intervals to the nearest power of 10 Compare two numbers using =, ≠, <, >, ≤ and ≥	TC2 – Number Sense TC6 – Calculator Skills 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 integers	 TC2 – Number Sense 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 	 TC3 – Shape Facts 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 degrees. Draw and measure angles between 180 and 360 degrees 	TC2 – Number Sense TC7 – Understanding and Calculating Risk • Know and use mental addition and subtraction strategies for integers • Know and use mental multiplication and division strategies for integers • Know and use mental strategies for decimals • Know and use mental strategies for fractions • Use factors to simplify calculations



COURAGE



- Explain the term-toterm rule of numerical sequences in words
- H Find missing numbers within sequences
- 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
- Use diagrams and letters with single 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 machine given a twostep expression
- Substitute values into two-step expressions
- Generate sequences given an algebraic rule

- 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
- H Write 10, 100, 1000 etc as powers of 10
- H Write positive integers in the form A x 10ⁿ
- H Investigate negative powers of 10
- H Write decimals in the form A x 10^n
- Represent tenths and hundredths as diagrams
- Represent tenths and hundredths on number lines
- Interchange between fractional and decimal number lines

subtraction of decimals

COMPASSION

- 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 and line charts
- H Add and subtract numbers given in standard form
- Properties of multiplication and division
- Understand and use factors
- Understand and use multiples
- Multiply and divide integers and decimals by powers of 10

- Use a calculator for directed number calculations
- Evaluate algebraic expressions with directed number
- Introduction to twostep equations
- Solve two-step equations
- Use order of operations with directed numbers
- H Understand that positive numbers have more than one square root
- H Explore higher powers and roots

•

- Understand representations of fractions
- Convert between mixed numbers 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

- 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 charts using proportion
- Interpret pie charts using a protractor
- Draw pie charts
- Understand and use the sum of angles at a point
- Understand and use the sum of angles on a straight line
- 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 quadrilateral

- 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
- Identify and represent sets
- Interpret and create
 Venn diagrams
- Understand and use the intersection of sets
- 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
- Calculate the probability of a single event
- Understand and use the probability scale



COURAGE



- Represent one- and two-step functions graphically
- Understand the meaning of equality
- 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
- Simplify algebraic expressions by collecting the like term using the ≡ symbol

- Convert between fractions and decimals - tenths and hundredths
- Convert between fractions and decimals - fifths and guarters
- 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
- Use and interpret pie charts
- Represent any fraction as a diagram
- Represent fractions on number lines
- Identify and use simple equivalent fractions
- Simplify fractions (no small step on this - but this is in the assessment)
- Understand fractions as division

 H - Multiply by 0.1 and 0.01

COMPASSION

- Convert metric units
- Use formal methods to multiply integers
- Use formal methods to multiply decimals
- Use formal methods to divide integers
- Use formal methods to divide decimals
- Understand and use order of operations
- Solve problems using the area of rectangles and parallelograms
- Solve problems using the area of triangles
- H Solve problems using the area of trapezia
- Solve problems using the mean
- H Explore multiplication and division in algebraic expressions
- Find a fraction of a given amount
- Use a given fraction to find the whole

- Understand and use equivalent fractions
- Add and subtract fractions where denominators share a simple common multiple
- Add and subtract fractions with any denominator
- Add and subtract improper fractions and mixed numbers
- Use fractions in algebraic contexts
- Use equivalence to add and subtract decimals and fractions
- H Add and subtract simple algebraic fractions

- Solve angle problems using properties of triangles and quadrilaterals
- Solve complex angle problems
- H Find and use the angle sum of any polygon
- H Investigate angles in parallel lines
- H Understand and use parallel line angle rules
- H Use known facts to obtain simple proofs

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

QEMS	CURIOSITY		COMPASSIO	COMPASSION		QEM	
C. P. A.S. O.		Convert fluently between FDP H - Explore fractions above one, decimals and percentages	and/or other fractions Find a percentage of a given amount using mental methods Find a percentage of a given amount using a calculator H - Solve problems with fractions greater than 1 and percentages greater than 100%			O PASS	
Key vocabulary:	Sequence: items or numbers	Approximate: To	Commutative: changing	Subtract: taking away	Polygon: A 2D shape	Commutative: changing	
	put in a pre-decided order	estimate a number,	the order of the	one number from	made with straight lines	the order of the	
	Term: a single number or variable	amount or total often using rounding of numbers to make them	operations does not change the result Associative: when you	another. Negative: a value less than zero.	Scalene triangle: a triangle with all different sides and	operations does not change the result Associative: when you	
	Position: the place	easier to calculate with	add or multiply you can	tilali zero.	angles	add or multiply you car	
	something is located	Integer: a whole	do so regardless of how	Commutative: changing		do so regardless of hov	
	Rule: instructions that relate two variables	number that is positive or negative	the numbers are grouped	the order of the operations does not change the result	Isosceles triangle: a triangle with two angles the same size and two	the numbers are grouped	
	Linear: the difference between terms increases or	Interval: between two points or values	Inverse: the operation that undoes what was	Product: multiply terms	angles the same size	Dividend: the number being divided	
	decreases by the same value each time	Median: A measure of central tendency	done by the previous operation. (The opposite operation)	Inverse: the opposite function	Right-angled triangle: a triangle with a right angle	Divisor: the number we divide by.	
	Non-linear: the difference between terms increases or	(middle, average) found by putting all the data values in order and	Placeholder: a number that occupies a position	Square root: a square root of a number is a	Frequency: the number of times a data value	Expression: a maths sentence with a	

to give value

object

Perimeter: the distance/

length around a 2D

finding the middle value

Negative: Any number

less than zero; written

with a minus sign.

of the list.

number when multiplied

by itself gives the value

(symbol)

Square: a term

multiplied by itself.

occurs

Sector: part of a circle

made by two radii

touching the centre

decreases in different

Difference: the gap between

amounts

two terms

sentence with a minimum of two numbers and at least one math operation (no equals sign

Equation: a mathematical statement



CURIOSITY COMPASSION

COURAGE



Arithmetic: a sequence where the difference between the terms is constant

Geometric: a sequence where each term is found by multiplying the previous one by a fixed non zero number

Function: a relationship that instructs how to get from an input to an output.

Input: the number/ symbol put into a function.

Output: the number/ expression that comes out of a function.

Operation: a mathematical process

Inverse: the operation that undoes what was done by the previous operation. (The opposite operation)

Commutative: the order of the operations do not matter.

Substitute: replace one variable with a number or new variable.

Expression: a maths sentence with a minimum of two numbers and at least

Place holder: We use 0 as a place holder to show that there are none of a particular place in a number

Place value: The value of a digit depending on its place in a number. In our decimal number system, each place is 10 times bigger than the place to its right

Range: The difference between the largest and smallest numbers in a set

Significant figure: A digit that gives meaning to a number. The most significant digit (figure) in an integer is the number on the left. The most significant digit in a decimal fraction is the first non-zero number after the decimal point

Fraction: how many parts of a whole we have

Decimal: a number with a decimal point used to separate ones, tenths, hundredths etc. Polygon: a 2D shape made with straight lines

Balance: in financial questions – the amount of money in a bank account

Credit: money that goes into a bank account

Debit: money that leaves a bank account

Array: an arrangement of items to represent concepts in rows or columns

Multiples: found by multiplying any number by positive integers

Factor: integers that multiply together to get another number.

Mili: prefix meaning one thousandth

Centi: prefix meaning one hundredth.

Kilo: prefix meaning multiply by 1000

Quotient: the result of a division

Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)

Numerator: the number above the line on a fraction. The top number. Represents how many parts are taken

Denominator: the number below the line on a fraction. The number represent the total number of parts

Equivalent: of equal value

Mixed numbers: a number with an integer and a proper fraction Improper fractions: a fraction with a bigger numerator than denominator

Substitute: replace a variable with a numerical value

Place value: the value of a digit depending on its place in a number. In our Rotation: turn in a given direction

Protractor: equipment used to measure angles

Compass: equipment used to draw arcs and circles

Vertically Opposite: angles formed when two or more straight lines cross at a point. Interior Angles: angles inside the shape

Sum: total, add all the interior angles together

Convex Quadrilateral: a four-sided polygon where every interior angle is less than 180°

Concave Quadrilateral: a four-sided polygon where one interior angle exceeds 180°

Polygon: A 2D shape made with straight lines

Scalene triangle: a triangle with all different sides and angles

that two things are equal

Quotient: the result of a division

Set: collection of things

Element: each item in a set is called an element Intersection: the overlapping part of a

Venn diagram (AND ∩)

Union: two ellipses that join (OR U)

Mutually Exclusive: events that do not occur at the same time

Probability: likelihood of an event happening

Bias: a built-in error that makes all values wrong (unequal) by a certain amount, e.g. a weighted dice

Fair: there is zero bias, and all outcomes have an equal likelihood

Random: something happens by chance and is unable to be predicted.



COMPASSION

decimal number system,

10 times bigger than the

each place is

place to its right

COURAGE



one math operation (no equals sign)

Evaluate: work out

Linear: the difference between terms increases or decreases by the same value each time

Sequence: items or numbers put in a pre-decided order

Equality: two expressions that have the same value

Equation: a mathematical statement that two things are equal

Equals: represented by '=' symbol – means the same

Solution: the set or value that satisfies the equation

Solve: to find the solution.

Inverse: the operation that undoes what was done by the previous operation. (The opposite operation)

Term: a single number or variable

Like: variables that are the same are 'like'

Coefficient: a multiplicative factor in front of a variable

Percentage: a proportion of a whole represented as a number between 0 and 100

Place value: the numerical value that a digit has decided by its position in the number

Placeholder: a number that occupies a position to give value

Interval: a range between two numbers

Tenth: one whole split into 10 equal parts

Hundredth: one whole split into 100 equal parts

Sector: a part of a circle between two radius (often referred to as looking like a piece of pie)

Recurring: a decimal that repeats in a given pattern

Dividend: the number being divided

Divisor: the number we divide by

Fraction: how many parts of a whole we have

Equivalent: of equal value

Whole: a number with no fractional or decimal part.

Percentage: parts per 100 (uses the % symbol)

Place Value: the value of a digit depending on its place in a number. In our decimal number system, each place is 10 times bigger than the place to its right

Convert: change into an equivalent representation, often fraction to decimal to a percentage cycle

Isosceles triangle: a triangle with two angles the same size and two angles the same size

Right-angled triangle: a triangle with a right angle

Multiples: found by multiplying any number by positive integers

Factor: integers that multiply together to get another number.

Prime: an integer with only 2 factors.

Conjecture: a statement that might be true (based on reasoning) but is not proven.

Counterexample: a special type of example that disproves a statement.

Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)

HCF: highest common factor (biggest factor two or more numbers share)

LCM: lowest common multiple (the first time the times table of two or more numbers match)

Q E M S	CURIOSITY		COMPASSIO	N	COURAGE	QEMS
NEASSY.	e.g. 5x (5 is the coefficient, x is the variable) Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)					
Assessment:	KLT 1	KAT 1	KLT 3	KLT 4		KAT 2
Key/Historical misconceptions in this unit:	 Sequences must be increasing. Sequences must be linear. Division/subtraction are commutative. (m/6 = 12 => m = 2) 	 Misuse of inequality symbols. Can't have greater than 100% Carrying out division in the wrong order when given as a fraction. 	 Confusing perimeter and area. Numbers wrong way around in the bus stop method. Following BIDMAS in a strict order. 	 Two Negatives make a positive. Adding and subtracting denominators. Simplifying factions can only be performed by halving. 	 Confusing angle measure and line measure. Using the wrong scale on the protractor. Incorrect identification of relevant angles in applying a given angle rule. 	 Replication of elements in the intersection. 9 is a prime number. Confusing factors and multiples.
Sequencing:	We have chosen to sequence to future years. For example - In year 7 they st and non-linear sequences) who algebra early it is then used the spring term (Revise and extended).	art with sequences which vich is then extended by using roughout the scheme to ex	will consolidate work previoning algebraic notation (Gene ttend and stretch students u	usly done in primary school rate sequences from an alge Inderstanding. Algebra and s	in to put in place the foundand and formalise their understa braic rule) in the following lacequences are then revisited	anding (Recognise linear block. By introducing



COMPASSION

COURAGE



MPASSIO	OPPASSO!
Values	This scheme of work promotes the school values of Compassion, Curiosity and Courage by:
	Compassion - Students show compassion through a culture of being non-judgmental when questions are answered incorrectly.
	Curiosity - Students are encouraged to show curiosity through asking questions and taking a genuine interest in the real life applications of the Maths that they are learning.
	Courage - Students are encouraged to show courage through attempting questions
National Curriculum plus:	In addition to teaching the statutory elements of the national curriculum, we also include opportunities to extend their learning beyond the classroom. For example practical examples and going further than the curriculum in terms of what they are expected to know from a financial literacy perspective.