	Year:10 Higher	Subject:	Maths	Autun	nn 1	Autu	mn 2	Spring 1		
Intent	Subject Concepts (Substantive knowledge)	5 concepts a 1) Numb 2) Algeb 3) Geom 4) Statist Ratio & Prop	reas: her ra etry & Measure tics & Probability bortion	Equations and Inequalities 9 • Quadratic Equations • Completing The Square • Simultaneous Equations Linear Inequalities	 Prior Knowledge: Understand the ≥ and ≤ symbols. Substitute into, solve and rearrange linear equations. Factorise simple quadratic expressions. Recognise the equation of a circle. Takeaway Learning: Find the roots of quadratic functions. Rearrange and solve simple quadratic equations. Solve more complex quadratic equation. Complete the square for a quadratic expression. Solve quadratic equations. Solve quadratic equations. Solve quadratic equations. Solve quadratic equations. Solve guadratic equations. Solve a quadratic equation. Complete the square for a quadratic expression. Solve simultaneous equations for real-life situations. Use simultaneous equations for real-life situations. Use simultaneous equations to find the equation of a straight line. Solve linear simultaneous equations to find the equations and solve them. Solve simultaneous equations with one quadratic equations. Use real-life situations involving two unknowns and solve them. Solve simultaneous equations to construct quadratic and linear equations and solve them. Solve inequalities and show the solution on a number line and using set notation. 	Probability 10• Combined Events• Mutually Exclusive Events• Experimental Probability• Independent Events• Tree Diagrams• Conditional Probability• Venn Diagrams• Set Notation	 Prior Knowledge: Understand that a probability is a number between 0 and 1, and distinguish between events which are impossible, unlikely, even chance, likely, and certain to occur. Mark events and/or probabilities on a probability scale of 0 to 1. Know how to add and multiply fractions and decimals. Express one number as a fraction of another. List all outcomes for a single event systematically. Make predictions from experimental data. Complete a two-way table. Takeaway Learning: Use the product rule for finding the number of outcomes for two or more events. List all the possible outcomes of two events in a sample space diagram. Identify mutually exclusive outcomes and events. Find the probabilities of mutually exclusive outcomes and events. Find the probability of an event not happening. Work out the expected results for experimental and theoretical probabilities. Compare real results with theoretical expected values to see if a game is fair. Draw and use frequency trees. Calculate probability of a repeated events. Draw and use tree diagrams to calculate conditional probability. Use Venn diagrams to calculate conditional probability. Use ven diagr	Multiplicative Reasoning 11 • Growth and decay • Compound Measures • Ratio and Proportion Similarity and Congruence 12 • Congruence • Proof • Similarity	 Prior Knowledge: Find a percentage of an amount and relate percentages to decimals. Rearrange equations and use these to solve problems. Know speed = distance/time, density = mass/volume. Convert between metric units. Solve simple direct and indirect proportion problems, including currency conversion. Takeaway Learning: Find an amount after repeated percentage changes. Solve growth and decay problems. Calculate rates. Convert between metric speed measures. Use a formula to calculate speed and acceleration. Solve problems involving compound measures. Use relationships involving ratio. Use direct and indirect proportion. Prior Knowledge: Recognise and enlarge shapes and calculate scale factors. Know how to calculate area and volume in various metric measures. Measure lines and angles, and 	
									protractor to construct standard constructions.Recognise congruent shapes.Know basic angle facts.	

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	Disciplinary Knowledge		Equations and In	Takeaway Learning: •	Probabi	Takeaway Learning:	Multiplicat	 Takeaway Learning: Show that two triangles are congruent. Know the conditions of congruence. Prove shapes are congruent. Solve problems involving congruence. Use the ratio of corresponding sides to work out scale factors. Find missing lengths on similar shapes. Use similar triangles to work out lengths in real life. Use the link between linear scale factor and area scale factor to solve problems. Use the link between scale factors for length, area and volume to solve problems. 	
	Disciplinary knowledge		<u>Algebra pr</u>	ogression map	Probability	progression map	Fractions, decimals and percentages progression map Similarity and Congruence 12 Position and direction progression map Multiplicative Reasoning 11 • Not converting to same unit to solve DST problem. • Incorrect multipliers used • Mixing up acceleration and distance calculation on a graph • Some pupils may incorrectly think 0.111111 = 1/11 • Some pupils may think that an the amount created by increasing a quantity by 5% repeated four times is the same as increasing the quantity by 5% and multiplying that amount by 4. • Some pupils may think the percentage multiplier for a 20% increase (or decrease) is 0.2 • Misapplying link between LSF and ASF/VSF • Setting out proof of congruence in unclear manner • Some pupils may think that the resulting image of an enlargement has to be larger than the original object. • Some pupils may think that the order of transforming an object does not have an effect on the size and position of the final image. • Some pupils may link scale factors and similarity using an additive, rather than multiplicative, relationship.		
Implementation	Common Misconceptions		Equations and In Not working inversely Misapplying completing Factorising quadratics Once pupils know how expression of the form overcomplicate the sing an expression such as Some pupils may think Some pupils may appl quadratics of the form of the form ax² + bx + + 5)(x + 2) because 2 	Examplifies 9 <i>x</i> to solve equations ing the square is incorrectly <i>w</i> to factorise a quadratic in $x^2 + bx + c$ they might mpler case of factorising $3x^2 + 6x (\equiv (3x + 0)(x + 2))$ <i>k</i> that $(x + a)^2 \equiv x^2 + a^2$ by the 'rules of factorising' in $x^2 + bx + c$ to quadratics <i>c</i> ; e.g. $2x^2 + 7x + 10 \equiv (2x + 5) = 10$ and $2 + 5 = 7$.	Probabil Not understanding w Not reducing denoming probability Not setting out tree of When constructing a situation, some pupild distinguish between of in the intersection of one of the regions Some pupils may muture adding and multiplying Some pupils may add adding fractions	lity 10 vords mutually exclusive inator for conditional diagram correctly Venn diagrams for a given s may struggle to elements that are included both regions or only in ddle the conditions for ng probabilities the denominators when			
	Enabling or Adapting the Curriculum	SEND Students	 Number lines in classr counting Grouping similar item idea of collecting like Y Solving problems with numbers instead of left 	rooms to support s before introducing the terms and algebra, x and n a box indicating missing	 Multiplications grids tables Number lines in class Fraction walls availab Equivalences overvie 	available to support times prooms to support counting ble in lessons w/chart	 Multiplications times tables Triangle formul Scaffolding wor to independence Modelled exam 	grids available to support ae shared eg DST *ksheets to gradually build ce pples	

		 Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames 	 Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames 	 Sentence starters and writing frames <u>Similarity and Congruence 12</u> 4 conditions of congruence shared with examples Multiplications grids available to support times tables, which in turn will help with scale factors Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames
	Disadvantaged Students	 Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames when answering problem solving questions Necessary equipment to support in lessons 	 Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames when answering problem solving questions Necessary equipment to support in lessons 	 Scaffolding worksheets to gradually build to independence Modelled examples Sentence starters and writing frames when answering problem solving questions Necessary equipment to support in lessons
		 Show me a pair of simultaneous equations with a solution x = 4, y = -2. And another. And another Convince me x + 2y = 11, 3x + 4y = 18 can be solved using substitution and using elimination. Which method is best in this case? Always/ Sometimes/ Never: Solving a pair of simultaneous equations using elimination is more efficient than using substitution 	 Show me an example of a Venn diagram. And another. And another Show me an example of a two-way table. And another. And another Always / Sometimes / Never: All the regions of a Venn diagram must be populated 	 Multiplicative Reasoning 11 Show me a fraction that can be expressed as a recurring decimal. And another. And another Always/Sometime/Never: If the denominator is odd, the fraction can ve expressed as a recurring decimal Convince me ¹/₇ can be expressed as a recurring decimal Convince me 0.9999999999 = 1 Kenny thinks that the interest gained when £100 is increased 20% per annum for 4 years can be calculated by multiplying £100 by 2.0736. Do you agree with Kenny? Explain your answer. Similarity and Congruence 12 Show me a pair of similar shapes. And another. And another Always/ Sometimes/ Never: The resulting image of an enlargement is larger than the original object Kenny thinks rotating an object 90° about the origin followed by a reflection in the y-axis has the same effect as reflecting an object in the y-axis followed by a rotation 90° about the origin. Do you agree with Kenny? Explain your answer.
Literacy/Numeracy Skills	LITERACY Reading:	 Equations and Inequalities 9 Key Words Add and subtract algebraic fractions Multiply and divide algebraic fractions Simplify an algebraic fraction Expand the product of three binomials Expand the product of two binomials involving surds Factorise an expression involving the difference of two squares Factorise a quadratic expression of the form ax² + bx + c (a is prime) Factorise a quadratic expression of the form ax² + bx + c (a is composite) 	Probability 10 Key Words Outcome, equally likely outcomes Event, independent event, dependent event Tree diagrams Theoretical probability, experimental probability Random Bias, unbiased, fair Enumerate Set Conditional probability Venn diagram	Multiplicative Reasoning 11Key WordsFractionMixed numberTop-heavy fractionPercentage change, percentage increase,percentage increaseCompound interest, Simple interestTerminating decimal, Recurring decimal(Exponential) growth, decaySimilarity and Congruence 12Key WordsPerpendicular bisectorScale Factor

	1	the stift is the sector starting of the numerator and (an	1	et unitaria
		 Identify when factorisation of the numerator and/or dependent of peeded to simplify an algebraic 		Similar
		fraction		Invariance
		Gimplify on algebraic fraction that involves		Transformation
		Simplify an algebraic fraction that involves		Detetion
		factorisation		Rotation
		 Change the subject of a formula when more than 		Reflection
		two steps are required		Translation
		Change the subject of a formula when the		Enlargement
		required subject appears twice		
	Writing:	Writing reasoning with correct punctuation & use of	Writing reasoning with correct punctuation & use of	Writing reasoning with correct punctuation & use
		mathematical keywords & symbols.	mathematical keywords & symbols.	of mathematical keywords & symbols.
		Example of writing fluency in maths:	Example of writing fluency in maths:	Example of writing fluency in maths:
		2	First draw Second draw	5
		$y = x^2 + 6x + 4$	3 8 8	A= 6500(1+0.0725)
		2	3 _B B	Artertiter
		$y = (x+3)^2 + 4 - 3^2$	8 5 W	#= 6 5 00 (1. 419)
			< 3 8	(0-\$0223 50)
		$y = (x + 3)^2 = 5$	5 B	H= +1223.34
		y = (x + 3) = 3	8 W	
			5 W	
	Oracy:	Incidental language based on ability groups.	Incidental language based on ability groups.	Incidental language based on ability groups.
		Example of spoken fluency in maths:	Example of spoken fluency in maths:	Example of spoken fluency in maths:
		There are infinitely many	A type of diagram that	Here we can see that a scale factor
		solutions to each equation,	uses overlapping circles	Here we can see that a scale factor
		but only one solution that	to represent the logical	of 4 was used on both top and
		satisfies both equations	rolation between specific	bottom.Because the same number
		simultaneously.	this se	was used to multiply both 5 and 7.
			things.	this is a proportion.
	NUMERACY	Number skills	Number skills	Number skills
		Numeracy check-up every week via:	Numeracy check-up every week via:	Numeracy check-up every week via:
		 Maths Box weekly check-up/numeracy 	 Maths Box weekly check-up/numeracy starters/math- 	 Maths Box weekly check-up/numeracy
		starters/math-drills.com	drills.com	starters/math-drills.com
		Staff to reflect on reasoning	Staff to reflect on reasoning	Staff to reflect on reasoning
Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions	Staff to reflect on reasoning CIMT: Venn Diagrams	Staff to reflect on reasoningKM: Investigate fractions connected to cyclic
Digital Strategy)	Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics	Staff to reflect on reasoning CIMT: Venn Diagrams OCR: Check In: Combined Events and Probability	Staff to reflect on reasoning <u>KM: Investigate fractions connected to cyclic</u> <u>numbers; e.g. the decimal equivalents of sevenths</u> ,
Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics KM: Stick on the Maths: Quadratic sequences	Staff to reflect on reasoning <u>CIMT: Venn Diagrams</u> <u>OCR: Check In: Combined Events and Probability</u> Diagrams	Staff to reflect on reasoning <u>KM: Investigate fractions connected to cyclic</u> <u>numbers; e.g. the decimal equivalents of sevenths,</u> nineteenths, etc.
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Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics KM: Stick on the Maths: Quadratic sequences NRICH: What's possible? NRICH: Finding Factors	Staff to reflect on reasoning CIMT: Venn Diagrams OCR: Check In: Combined Events and Probability Diagrams AQA: Bridging Unit: Set notation, number lines and Venn diagrams	Staff to reflect on reasoningKM: Investigate fractions connected to cyclicnumbers; e.g. the decimal equivalents of sevenths,nineteenths, etc.KM: Stick on the Maths 8: Recurring decimals andfractions
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Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics KM: Stick on the Maths: Quadratic sequences NRICH: What's possible? NRICH: Finding Factors Algebra Tiles (external site)	Staff to reflect on reasoning CIMT: Venn Diagrams OCR: Check In: Combined Events and Probability Diagrams AQA: Bridging Unit: Set notation, number lines and Venn diagrams	Staff to reflect on reasoningKM: Investigate fractions connected to cyclic numbers; e.g. the decimal equivalents of sevenths, nineteenths, etc.KM: Stick on the Maths 8: Recurring decimals and fractionsKM: Stick on the Maths 8: Repeated Proportional ChangeKM: Convinced?: Recurring decimals and fractions KM: Convinced?: Repeated Proportional ChangeKM: Convinced?: Repeated Proportional ChangeNRICH: Repetitiously Hwb: Borrowing money: APR, Too good to be true!, Double your money! and Comparing interestKM: Enlargement 2 KM: Stick on the Maths SSM3: Enlargement
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Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics KM: Stick on the Maths: Quadratic sequences NRICH: What's possible? NRICH: Finding Factors Algebra Tiles (external site)	Staff to reflect on reasoning CIMT: Venn Diagrams OCR: Check In: Combined Events and Probability Diagrams AQA: Bridging Unit: Set notation, number lines and Venn diagrams	Staff to reflect on reasoningKM: Investigate fractions connected to cyclicnumbers; e.g. the decimal equivalents of sevenths,nineteenths, etc.KM: Stick on the Maths 8: Recurring decimals andfractionsKM: Stick on the Maths 8: Repeated ProportionalChangeKM: Convinced?: Recurring decimals and fractionsKM: Convinced?: Repeated Proportional ChangeNRICH: RepetitiouslyHwb: Borrowing money: APR, Too good to betrue!, Double your money! and ComparinginterestKM: Stick on the Maths SSM3: Enlargement(fractional scale factor)KM: Stick on the Maths SSM1: Congruence and
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Digital Strategy		Staff to reflect on reasoning KM: Simplifying algebraic fractions KM: Maths to Infinity: Brackets and Quadratics KM: Stick on the Maths: Quadratic sequences NRICH: What's possible? NRICH: Finding Factors Algebra Tiles (external site)	Staff to reflect on reasoning CIMT: Venn Diagrams OCR: Check In: Combined Events and Probability Diagrams AQA: Bridging Unit: Set notation, number lines and Venn diagrams	Staff to reflect on reasoningKM: Investigate fractions connected to cyclic numbers; e.g. the decimal equivalents of sevenths, nineteenths, etc.KM: Stick on the Maths 8: Recurring decimals and fractionsKM: Stick on the Maths 8: Repeated Proportional ChangeKM: Convinced?: Recurring decimals and fractionsKM: Convinced?: Repeated Proportional ChangeNRICH: RepetitiouslyHwb: Borrowing money: APR, Too good to be true!, Double your money! and Comparing interestKM: Enlargement 2 KM: Stick on the Maths SSM3: Enlargement (fractional scale factor) KM: Stick on the Maths SSM1: Congruence and similarity NRICH: Growing Rectangles

	Home Learning		• Either internet based work or worksheets. Homework to be set weekly based on topics covered that week and/or lesson. Work is differentiated to support the least able and stretch the most able.				•Either internet based work or worksheets. Homework to be set weekly based on topics covered that week and/or lesson. Work is differentiated to support the least able and stretch the most able.				• Either internet based work or worksheets. Homework to be set weekly based on topics covered that week and/or lesson. Work is differentiated to support the least able and stretch the most able.		
			•			•				•			
	Composite Assessment												
t	Interleaving assessments throughout the year.								<u>Unit Test</u> Unit 10				
Impac	End of unit PLC assessment after each Unit.	Date:	TBD	Content:	<u>Unit Test</u> Unit 9	Date:	TBD (Content:	Autumn 2	Date: 1	TBD	Content:	Unit 11
	End of term test Autumn 2 and Spring 2.								assessment				Unit 12
	End of year test Summer 2.								01111105				