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fear 7	Topic: Sequences Understand & Use Algebraic Notation Equality & Equivalence	Topic: Place Value, Ordering Integers & Decimals Fraction, Decimal & Percentage Equivalence	Topic: Solving Problems with Addition, Subtraction, Multiplication & Division Fractions & Percentages of Amounts	Topic: Operations & Equations with Direct Numbers Addition & Subtraction of Fractions	Topic: Constructing, Measuring & Using Geometric Notation Developing Geometric Reasoning Developing Number Sense	Topic: Sets & Probability Prime Numbers & Proof
	Intent: The intent of these topics is to develop a deep understanding of the basic algebraic forms.	Intent: One of the key focuses is for pupils to gain a deep understanding of the links between fractions, decimals and percentages so that they can convert fluently between those most commonly seen in real-life.	Intent: The intent is to focus on the formal methods of addition and subtraction, multiplication and division. To also look at the key concepts of fractions and percentages and the links between the two.	Intent: To deepen understanding of directed numbers. To also look at equivalent fractions and the addition and subtraction of fractions.	Intent: To build on KS2 skills using rulers, protractors and other measuring equipment. To cover basic geometric language, names and properties of triangles and quadrilaterals and the names of other polygons. To work on mental strategies with a focus on using known facts to find other facts.	Intent: Pupils to learn about sets, sets notation and systemic listing strategies. Factors and multiples are to be revisited to introduce the concept of prime numbers.
	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led .	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led .	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led. A practical visit to shops to see real life example of maths.	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led.	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led. Videos to be shown to consolidate learning.	Implementation: In lessons using computers, calculators and written work, White boards and short tasks mainly teacher led.



The	^e Impact:	Impact:	Impact:	Impact:	Impact:	Impact:
	To enable pupils to understand and explore sequences. For those who are weaker, calculators are to be used so that number skills are not a barrier. Also the development of skills to ensure pupils understanding of how to solve equations.	To enable pupils to use maths in the world outside of school being able to calculate real life situations with fraction, percentages and decimals.	To enable pupils to calculate using the four mathematical operations with confidence.	To enable pupils to understand how negative and positive numbers can be used in maths problems. The aim is to build mathematical confidence with pupils.	To build confidence in pupils using measuring equipment which historically pupils are uncomfortable using.	To give pupils a deeper understanding of prime numbers and the ability to learn some strategies to identify prime numbers.



AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
Topic:	Topic:	Topic:	Topic:	Topic:	Topic:
Ratio & scale	Working in the Cartesian	Brackets, equations &	Fractions & percentages	Angles in parallel lines &	The data handling cycle
	plane	inequalities	6	polygons	
Multiplicative change	Danuarantina data	Camuanaa	Standard index form	Auga of turnania () sinalar	Measures of location
Multiplying and dividing	Representing data	Sequences	Number sense	Area of trapezia & circles	
fractions	Representations	Indices	Number sense	Line symmetry & reflection	
Huctions	Tables & Probability	maices		Line symmetry & renection	
	, , , , , , , , , , , , , , , , , , , ,				
Intent:	Intent:	Intent:	Intent:	Intent:	Intent:
The intent of the	Pupils to look at	Pupils to explore	To focus on the	To push pupils	To look at when grapl
beginning of this unit is	coordinates and to	expanding over a single	relationship between	understanding of angle	may be misleading an
to focus on the meaning	look at algebraic rules	bracket and factorising	fractions, percentages	notation &	real life graphs. To als
of ratio and different	for straight lines. To	by taking out common	and decimal equivalents.	relationships. We will	look at mean, mediar
ways of representing	introduce pupils to	factors. To also look at	To look at notation and	also look at using the	and mode.
ratio. Pupils to also	bivariate data and	sequences with more	build on work from	area for trapezium and	
investigate the link	linear correlation. To	complex algebraic	indices. To revisit basic	circles. To also look at	
between ratio and	remind pupils of the	rules. To also look at	number operations.	line symmetry &	
scaling. We will also look	ideas of probability.	consolidating		reflection.	
at deepening		knowledge with			
understanding of		expressions with			
representing fractions		powers.			
with multiplying and					
dividing.					
Implementation:	Implementation:	Implementation:	Implementation:	Implementation:	Implementation:
In lessons using	In lessons using	In lessons using	In lessons using	In lessons using	In lessons using
computers, calculators	computers, calculators	computers, calculators	computers, calculators	computers, calculators	computers, calculato
and written work, white	and written work,	and written work,	and written work, white	and written work, white	and written work, wh
boards and short tasks	white boards and short	white boards and short	boards and short tasks	boards and short tasks	boards and short task
mainly teacher led. Also	tasks mainly teacher	tasks mainly teacher	mainly teacher led.	mainly teacher led. The	mainly teacher led. 1
the use of fraction	led. Graph paper to be	led. Pupil may need	Pupils may need one to	use of rulers,	use of a field trip will
diagrams.	used.	one to one	one intervention to fill	protractors and	also be helpful.
		intervention for a	gaps in knowledge.	compasses.	
		deeper understanding.			
Impact:	Impact:	Impact:	Impact:	Impact:	Impact:



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s	The impact of this unit is	The aim of this unit is	Historically pupils	The aim of this unit is to	The aim of this unit is to	This unit is to address
	to encourage a wider	to encourage an	struggle with the	fill in gaps with pupils	deepen pupils	misconceptions in
	understanding of the	understanding of	concept of brackets so	knowledge and to	understanding of	regards to data. This
	topic of ratio which	coordinates. Also to	the aim is build	identify gaps.	formulas in preparation	will be a short unit so to
	historically pupils find	help pupils	confidence in this area.		for GCSE.	leave space for
	difficult.	understanding of				knowledge gaps.
		probability.				



Year 9	Topic: Reasoning with Algebra Straight line graphs Forming & solving equations Testing conjectures	Topic: Constructing in 2 & 3 dimensions Three dimensional shapes Constructions & congruency	Topic: Reasoning with number Numbers Using percentages Maths & money	Topic: Reasoning with geometry Deduction Rotation & translation Pythagoras' theorem	Topic: Reasoning with proportion Enlargement & similarity Solving ratio & proportion problems Rates	Topic: Representations & revision Probability Algebraic Representation Revision
	Intent: For pupils to expand on their knowledge in year 8 with straight line graphs and also revisit forming and solving linear equations and inequalities. There is a focus on reasoning this half term.	Intent: Study 3d shapes at a formally. To also look at the idea of a locus and standard construction using a straight edge and a pair of compasses. Congruency is also explored.	Intent: To develop knowledge of number systems, revisiting HCF, LCM and standard form. Building on previous knowledge of fractions and decimals, reverse percentages will be looked at. To look at real life maths in various financial contexts.	Intent: This half term pupil will extend their knowledge of angle rules and properties of shapes. Pupils will also look at rotational symmetry and rotation. Pupils will revise squares and square roots before moving on to investigating the relationships between the sides of a right angled triangle.	Intent: Pupils to develop knowledge of transformations. Building on previous knowledge looking at ratio problems and direct proportion and graphs. Students develop their knowledge of inverse relationships to explore speed, distance and time in detail.	Intent: A key focus of this unit is the introduction of the idea of independent events and the use of the multiplication rule. for these. Pupils to extend their knowledge of graphs to look at the interpretation and creation of different types of graphs. The remainder of the term is to revise and fill gaps of knowledge.
	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led. The use of geometrical drawing equipment will be required.	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led. A field trip to see how maths work outside of school.	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led	Implementation: In lessons using computers, calculators and written work, white boards and short tasks mainly teacher led



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he Brades Impact:	Impact:	Impact:	Impact:	Impact:	Impact:
The aim of this ur prepare pupils fo understanding GO topics and the lar associated.	Pupils historically struggle with the use of compasses so the idea	This is to extended pupil's knowledge of maths in a financial sense. With use of the local community.	Pupils will build on knowledge from year 8 when using Pythagoras.	To build pupil confidence when working with various diagrams and formulas and the language associated.	To fill any gaps that have acquired over the academic year.