Year 8

Autumn Term		Spring Term		Summer Term	
Key knowledge:		Key knowledge:		Key knowledge:	
Core:		Core:		Foundation:	
Factors, multiples and primes		Use angle rules to find missing angles		Plot points on a graph using coordinates	
Using index laws		Use ruler and compass to perform constructions		Draw statistical diagrams	
Using standard form		Find the area and perimeter of shapes		Find averages and the range from a set of data	
Use set notation, Venn diagrams, grids and tables for probability		Half term		Find averages and the range from tables, including grouped data	
Calculate with fractions		Rounding and estimation including significant figures		Calculate probability	
Half term		Calculate percentage of amounts		List outcomes using a sample space diagram	
Calculate with negative numbers		Use magic multipliers for percentages		Half term	
Use algebraic language		Calculate a reverse percentage		Calculate compound measures such as speed and density	
Substitution		Solve problems with ratio		Construct real life graphs for speed/time	
Simplify, expand and factorise algebraic expressions				Calculate the volume and surface area of 3D shapes	
Solve equations		Higher:		Introduction to Pythagoras' theorem	
Changing the subject of a formula		Use angle rules to find missing angles		Perform transformations, and describe a transformation of shapes	
Finding the nth term of a sequence		Use ruler and compass to perform constructions			
		Find the area and perimeter of shapes		Higher:	
Higher:		Half term		Plot points on a graph using coordinates	
Factors, multiples and primes		Rounding and estimation including significant figures		Draw statistical diagrams	
Using index laws		Calculate percentage of amounts		Find averages and the range from a set of data	
Using standard form		Use magic multipliers for percentages		Find averages and the range from tables, including grouped data	
Use set notation, Venn diagrams, grids and tables for probability		Calculate a reverse percentage		Calculate probability	
Calculate with fractions		Solve problems with ratio		List outcomes using a sample space diagram	
Half term				Half term	
Calculate with negative numbers				Calculate compound measures such as speed and density	
Use algebraic language				Construct real life graphs for speed/time	
Substitution				Calculate the volume and surface area of 3D shapes	
Simplify, expand and factorise algebraic expressions				Solve problems involving surface area and volume of cylinders	
Solve equations (including unknowns on both sides)				Introduction to Pythagoras' theorem	
Changing the subject of a formula				Perform transformations, and describe a transformation of shapes	
Finding the nth term of a sequence					
Introduction to other sequences; geometric, quadratic, fibonacci					
Pupils will be able to:	Key Attributes for Success:	Pupils will be able to:	Key Attributes for Success:	Pupils will be able to:	Key Attributes for Success:
Answer problem solving questions	Learning times tables. Knowing	Answer problem solving	Learning times tables. Knowing	Answer problem solving	Learning times tables. Knowing number
on all the topics listed above	number bonds. Mental	questions on all the topics	number bonds. Mental arithmetic	questions on all the topics listed	bonds. Mental arithmetic strategies.
	arithmetic strategies. Problem	listed above	strategies. Problem solving skills.	above	Problem solving skills. Reading the question.
	solving skills. Reading the		Reading the question. Asking for help.		Asking for help. Setting out work clearly.
	question. Asking for help. Setting		Setting out work clearly. Showing		Showing working out. Self and peer
	out work clearly. Showing		working out. Self and peer		assessment. Correcting work.
	working out. Self and peer		assessment. Correcting work.		
	assessment. Correcting work.		_		
Assessment:		Assessment:		Assessment:	
There will be an assessment around half term and just before or just		There will be an assessment around half term and just before or just		There will be an assessment around half term and at the end of June on the	
after Christmas on the above topics		after Easter on the above topics		above topics	
Enrichment Opportunities:		Enrichment Opportunities:		Enrichment Opportunities:	
Math's Club (Tue after school in S10)		Math's Club (Tue after school in S10)		Math's Club (Tue after school in S10)	
Chess club (Tue after school in 2.1)		Chess club (Tue after school in 2.1)		Chess club (Tue after school in 2.1)	
Times Tables Rock stars (TTRS)		Times Tables Rock stars (TTRS)		Times Tables Rock stars (TTRS)	
		Junior Maths Challenge		· · /	