

Maths Long Term Plan Year 10 Higher

Temperance Term

W/C	1	2			3	4		5			6	7	
Area of Study	Number 1					Algebra 1							
Core learning	Working with integers To identify the correct operations required and use written calculations to solve worded problems. Solve worded problems. To apply the hierarchy of operations of arithmetic using positive and negative numbers. To apply the hierarchy of operations to accurately work out calculations involving two or more operations. To identify and write the inverses for operations and apply these to check the results of calculations and develop the skills required to solve the equations.	Properties of integers To recall and understand key definitions. To consolidate their understanding of basic place value. To apply their knowledge of factors and primes to express a number as a product of its prime factors. To simplify a collection of numbers that have been multiplied together by writing them in index form. To use the "listing method to find the highest common factor and lowest common multiple of a set of numbers. To use a prime factor tree to find the highest common factor and lowest common multiple of a set of numbers.	fractic To apply kt factors and simplify fre identify eq To apply at algorithm t fraction. To apply tb to fraction To apply kt four opera problems i fractions. To calculat amounts. To express fraction of	nowledge of multiples to ctctions and unvalent fractions. de explain an to find the median ne four operations s. nowledge of the tions to solving nvolving e fractions of one number as a another.	Working with decimals To apply knowledge of place value to convert decimals to fractions and order fractions. To be able to add, subtract, multiply and divide decimals. To use a calculator to complete more complicated calculations that involve decimals. To be able to add, subtract, multiply and divide decimals without using a calculator. To convert recurring decimals to fractions.	language and notation. To form algebraic expressions to simplify products and quotit for simplify products and quotit for simplify products and quotit for expand the product of a simplify products and quotit for expand the product of a simplify and to the product of a simplify and to be fully factorise to be fully factorise to form expressions from work contexts including number products and the product of a simplify and the product of t	It know what a quadratic expression is, to too the companies of correct, formal too tation. To know what a quadratic expression is, to be able to expand the problems. To be able to expand the problem is. To be able to expand the problem is. To be able to expand the problem is. To be able to factorize expressions of the form an 22 + bx + c. To complete the square on a quadratic expression. To simplify and manipulate algebraic fractions. To simplify and manipulate algebraic fractions. To simplify and manipulate algebraic fractions.					HALF TERM	
Assessment	Opportunities for Cha	llenge: Open middle	, goal fre		ress Check	ample", SSDD are g	ood res	sources but alv	ways choose		ns based on the curre	ent topic.	
W/C	8	9	9		10	11		12			13		
Area of study	Assessment	Algebra 1			Geometry 1								
Core learning	Revision	Equations To solve linear equations. To understand that identities are equations for which there are an infinite number of solutions as they are true for all values x can take. To form and solve quadratic equations. To understand that different types of equations have a different possible number of solutions. To solve linear simultaneous equations. To solve linear and quadratic simultaneous equations. To know how to read and interpret graphs in various contexts. To be able to use graphs to find approximate solutions to equations. To use treative methods to find approximate solutions to equations. To use treative methods to find approximate solutions to equations. To use equations and graphs to solve problems.				Properties of polygons and 3D objects To know the ammes and features of common polygons and polyherotron. To know the ammes and features of common polygons and polyherotron. To know how to describe and figures. To identify and describe line and rotational symmetry. To know and use properties of triangles and quadrilaterals, including their interior angle sum. To know and use the properties of 3D solids.	facts inclu angles, an around a To apply b facts to fin various sc To recall k angle fact correspon angles and To unders of interior being 180 To calcula	mowledge of basic angle ding: vertically opposite gles on a line and angles point. So a line and angles point. So assic and parallel angle in enarios. In conveledge of parallel line sincluding: diding angles, alternate d.co-interior angles. Land a proof for the sum 'angles of a triangle	Perimeter To calculate the perisimple shape. To understand that I of a shape is its bour To calculate the peri composite shapes. To form expressions equations for the perigent shape. To know and use a fine circumference or To be able to find an expression signer sector and her perimeter of the sec	the perimeter ndary. imeter of s and erimeter of a formula for fa circle. rec length of a nee the	Area To know and use the formulae for calculating the area of rectangles, triangles, parallelograms, and trapeziums. To use formulae to calculate the area of composite shapes. To form algebraic expressions for the area of a state. To know and use the Colculating the area of a circle. To calculate the area of a circle.	CHRI	STMAS
Opportunity for Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.													
Assessment	Formal, summative					Progress Chec	ck						



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Justice Term

W/C	14	15	16	17	18	19	
Area of study							
Core learning	Opportunity for Challenge: Op	en middle, goal free, exam o	questions, "by example", SSDD	are good resources but always	choose problems based on the	e current topic.	HALF TERM
Assessment							
W/C	21	22	23	24	25	26	
Area of study							
Core learning							EASTER
	Opportunity for Challenge: Op	en middle, goal free, exam o	questions, "by example", SSDD	are good resources but always	choose problems based on the	e current topic.	
Assessment							



Maths Long Term Plan Year 10 Higher

Courage Term

W/C	27	28	29	30	31	31				
Area of study										
Core learning	Opportunity for Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.						HALF TERM			
Assessment	Sportunity for chancings. Of	I	positions, by example , 3300	l e good resources but always	I					
Assessment										
W/C	32	33	34	35	36	37				
Area of study										
Core learning										
Opportunity for Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.										
Assessment										