Maths Long Term Plan Year 10 Foundation

Chichester Free School
Nurture • Challenge • Inspire

Temperance Term

W/C	1	2	3	4	5	6	7	
Area of Study	**Number 1**						Algebra 1	HALF TERM
Core learning	**Working with integers** To identify the correct operations required and use written calculations to solve worded problems. To calculate with all four operations of arithmetic using positive and negative integers. 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 equations.	**Properties of integers** To recall and understand key definitions of different types of numbers. 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.	**Working with fractions** To apply knowledge of factors and multiples to simplify fractions and identify equivalent fractions. To apply the four operations to fractions. To apply knowledge of the four operations to solving problems involving fractions. To calculate fractions of amounts. To express one number as a fraction of another.	**Working with decimals** To apply knowledge of place value to convert decimals to fractions and order fractions. To apply knowledge of rounding to estimate answers to calculations that involve decimals. To be able to add, subtract, multiply ad divide decimals. To use a calculator to complete more complicated calculations that involve decimals.		**Basic Algebra** To interpret and work with algebraic notation including an understanding of correct, formal language and notation. To form algebraic expressions from worded instructions and geometric problems. To substitute to evaluate algebraic expressions for a given value. To simplify products and quotients.	
Opportunities for Challenge: Open middle, goal free, exam questions, "by example", SSDD are good resources but always choose problems based on the current topic.								
Assessment			Progress Check			Progress Check		

W/C	8	9	10	11	12	13	
Area of study	**Assessment**	**Algebra 1**					CHRISTMAS
Core learning		**Basic Algebra** To expand the product of a single term and a binomial. To factorise out common factors and recognise that the HCF must be factored out for an expression to be fully factorised. To form expressions from word problems and use algebra to solve problems in different contexts including number problems.	**Further Algebra** To know what a quadratic expression is. To be able to expand the product of two binomials. To be able to factorise expressions of the form ax^2 + bx + c. To form algebraic expressions to solve problems.	**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 know how to read and interpret graphs in various contexts. To be able to use graphs to find approximate solutions to equations.		
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 Check			

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Justice Term

W/C	14	15	16	17	18	19	HALF TERM
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							
W/C	21	22	23	24	25	26	**EASTER**
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							

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Courage Term

W/C	27	28	29	30	31	31	HALF TERM
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							
W/C	32	33	34	35	36	37	SUMMER
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							