



Temperance Term

W/C	1	2	3	4	5	6	7		
A	Ratio and Proportion								
Area of Study									
Core learning	Ratio To use ratio notation to write ratios for diagrams and word statements and to simplify ratios. To divide a quantity into two or more part given a specified ratio and to write the division of quantities into parts as a ratio. To use a unitary method to solve ratio and proportion problems and relate ratios to fractions and linear functions in order to solve problem, including real-life ones such as conversion and scaling.	Proportion To use the unitary method to solve problems. To solve the unitary method to solve proportion problems. To solve direct proportion questions graphically. To solve direct proportion questions using algebraic manipulation. To solve inverse proportion questions, based on y = 1/x. ge: Open middle, goal free	Growth and Decay To calculate with simple growth, such as simple interested rates. To calculate with compund growth, such as compound interest rates. To solve word problems using simple and/or compound growth. To calculate with simple decay. To calculate with simple decay, such as depreciation. To solve word problems using simple and/or compound decay.	3D Objects a To apply what you already know about the properties of 30 objects. To work with 2D representations of 3D objects. To construct and interpret plans and elevations of 3D objects. ample", SSDD are good r	Units and Measure To convert metric units for capacity, mass and length. To convert metric units of area and volume. To units of the mar not metric. To convert units of time and solve related problems. To convert currencies units gcale factors. To convert currencies units gcale factors. To convert currencies units of a m/y and p = (#, a to find an given values for the other two. To form scale to construct scale drawings to fit a give To read and use scales on maps including both line/ba for smalles to construct scale drawings. Besources but always chooses	y one of the variables r scales and ratio scales. n dimension.	d Surface Area er of prisms (including cylinders). e area of prisms (including cylinders). e and surface area of a some. e and surface area of a sphere. e and surface area of composite 3D shapes. d surface area of a pyramid.	HALF TERM	
Assessment		Mocks?			Progress check				
W/C	8	9	10	11	12	13			
	Algebra 3				Revision for mocks				
Area of study									
Core learning	Graphs of Linear Functions. Interpreting Graphs To use a table of values to plot graphs of linear functions. To dentify the main features of straight-fine graphs and use them to sketch graphs from linear equations in the form of yermxet. To straight-fine graph as a rate of change. To work fluently with equations of straight-fine graphs of quadratic equations that defines the graph s of quadratic equations that defines the graphs in real-work fluently with clubic polynomia To sketch graphs. Graphs of Other Funct. To find the equation of a straight-fine using gradue their equations. To identify and pairs. To work fluently with cubic polynomia To sketch cubic graphs. To identify and pairs. To identify and pairs. To work fluently with cubic polynomia To sketch cubic graphs. To identify and pairs. To solve problems involving straight-line graphs. To work fluently with cubic polynomia To sketch parables.		bons and Equations the line graphs. Intrictions i.e. parabolas. In the skintercept of the parabola of the ph. atte equations. and their graphs. of numbers and plot functions involving to their equations. nctions. coal graphs.			CHRISTMAS			
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		Progress check		Progress check		Mocks			





Justice Term

W/C	14	15	16	17		18	19		
Area of study	Geometry 3								
Core learning	Vector geometry Represent vector: as a diagram or a column vector. Add and subtract vectors. Multiply vectors by a scalar. Recognise parallel vectors.	Transformations Carry out, identify and describe reflection and enlargements.	s, rotations, translations angles and shapes. Accurately copy diagrams usi Construct perpendicular bis Construct a perpendicular ar Construct a perpendicular for Bisect an angle. Use construction so solve lo Apply construction and loci k problems.	nd loci mpasses to accurately construct ing rulers and compasses only. ctors. a given point on a line. a given point to a line. ci problems. nowledge to solve contextual	Similarity Know what "math Determine when th Know what is mean Enlarge a given sha Know what a "cent Enlarge a shape gi enlargement. Determine a given diagram. Determine similar	ematically similar ^a means. wo objects are mathematically similar. th by "mathematical enlargement ⁴⁷ . be by a positive, rational scale factor. re of enlargement ⁴⁷ . (see a scale factor and the centre of centre of enlargement and scale factor from a poolygons.	Congruence Know what is mens for two objects to be co Congruence conditions for triangles. SSS, ASA, SAS, RHS. Apply the conditions to different situations.	objects to be congruent. langles. rent situations.	
Assessment	Opportunity for Challenge: Op	oen middle, goal free, exam o	questions, "by example", SSDD) are good resources	s but always	choose problems based o	on the current topic.		
W/C	21	22	23 2			25	26		
Area of	Mocks in this half term Somewhere Geometry 4								
Core learning		Pythagoras' theorem Derive the theorem and use it to find the length of th Know and use the theorem to find any missing lengt Use the theorem to show if a training is NA or not. Apply the theorem to problems in 20. Link the theorem to real-life skills for industry.	U Ka K K	Trigonometry Use the trig ratios given by the sine, cosine and langent functions to find unknown lengths and angles in 2D RA triangles. Know the avert site given by sine and cosine of 0, 30, 45, 60 and 90 degrees and the exact ratios given by the tangent function for 0.30.45 Know the difference between an angle of degression and an angle of elevation. Identify when the trig ratios need to be used instead of Pythagoras to solve problems in 2D, including contextual problems.			EASTER		
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									



Maths Long Term Plan Year 11 Foundation

Courage Term

W/C	27	28	29	30	31	31			
Area of study	Revision Revision						•		
Core learning						HALF TERM			
	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			
Area of study	Exams								
Core learning							UMMER		
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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									