Maths Long Term Plan Year 9



Temperance Term

W/C	1	2	3	4	5	6	7			
Area of Study		Assessment								
Core learning for all sets Core learning for sets 1 and 2	3D properties Count faces, edges and vertices of cubes, cub spheres. (identify planes of symmetry. Construct and interpret isometric drawings. Draw plans and elevations. Given plans and elevations, sketch a 3D shap Draw isometrically from plans and elevations	2.	Metric measurements Recap of place value. Multiply and divide by powers of 10. Convert between larger and smaller metri units. Calculate perimeters of irregular shapes given their side lengths. Calculate the perimeter of rectangles given length and width. Calculate the perimeter of rectangles given length and width. Calculate the memeters when lengths are given in different metric units. Calculate the area of rectiliners rappes including with decimals and/or fractions. Find the length given the area and width of a rectangle. Solve problems inolving area and perimeter of rectilinear shapes and algebra. Convert between different metric units of area.		Volume Count cubes to find volume. Calculate the volume of a cube or cuboid. Calculate the volume of composite shapes made from cubes or cuboids. Convert between different metric units of volume. Calculate the rare and a fraingel (recarp). Calculate the volume of a prisme with a composite shape cross-section. Recap circel definitions and properties. Calculate and a circle (recap). Calculate the volume of a prism with a composite shape cross-section. Recap circel definitions and properties. Calculate are and a circle (recap). Calculate the volume of a sylinder. Calculate in terms of pi.			HALF TERM		
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			Formal, summative			
W/C	8	9	10	11	12	13				
Area of study	Algebra 5									
Core learning for all sets Core learning for sets 1 and 2	Equations and graphs Solve linear equations with one unknown on Shart with politive integer conflictents and so Move on to negative, decimal, fractions conf- Solve linear equations with the unknown on I Plot linear graphs using a table. Plot linear graphs using the gradient-intercept Identify and interpret gradients and intercept	lutions. icients and solutions. ooth sides of the equation. t method.	Simultaneous equations Solve linear simultaneous equations graphically. Solve linear simultaneous equations algebraically using substitution. Solve linear simultaneous equations algebraically using elimination.		Inequalities Understand the notation involved. Verbally express an inequality and suggest possible numbers that work. Write inequalities on number lines and vice versa. List integer solutions to double inequalities. Solve linear inequalities in the unknown on one side. Represent the answer on a number line. Solve linear inequalities with the unknown on both sides. Solving double inequalities and represent the answer on a number line.		CHRISTMAS			
Opportunity fo	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								

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Justice Term

W/C	14	15	16	17	18	19		
Area of study	Geometry 4 Assessment							
Core learning for all sets Core learning for sets 1 and 2	Surds	Pythag					HALF TERM	
Op Assessment	propress Check Progress Check							
W/C	21	22	23	24	25	26		
Area of study		l	A	Igebra 6		1		
Core learning for all sets Core learning for sets 1 and 2	Quadratic expressions		Quadratic graphs		Quadratic equations		EASTER	
Ор	portunity for Challenge: Op	oen middle, goal free, exam	questions, "by example", SSDD	are good resources but always	s choose problems based on th	e current topic.		
Assessment			Progress Check		Progress Check			

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Courage Term

W/C	27	28	29		30	31	31			
Area of study										
Core learning for all sets Core learning for sets 1 and 2	Averages - Ungrouped	Averages - Grouped			Graphical representations	HALF TERM				
Ор	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				
W/C	32	33	34		35	36	37			
Area of study	Assessment	Assessment Geometry 5								
Core learning for all sets Core learning for sets 1 and 2		Reflections, rotations and translations			gements Similarity		nilarity			
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					