Year 8 Overview 2024-25 – Mathematics							
Date	Wk	Week	Units Studied & Learning Outcomes				
			7 weeks (?? Lessons) (38 Days)				
Tues 5-Sep	А	1	Use of a Calculator (3) Learning Outcomes: GW: Know the order of operations and efficiently use a calculator BI: Apply the order of operations EW: Understand that certain operations are equivalent and use this to solve problems				
9-Sep	В	2	Order of Operations (3) Learning Outcomes: GW: Know the order of operations BI: Apply the order of operations EW: Understand that certain operations are equivalent and use this to solve problems				
16-Sep*	A	3	Area and Circumference of Circles Area of Compound Shapes (4) Learning Outcomes: GW Can calculate the circumference or area given radius or diameter BI Can find the area of compound shapes EW Can calculate radius or diameter given area or circumference				
23-Sep	В	4 RQ 1	Finding and Using the nth term (3) Learning Outcomes: GW Describe a sequence using its Nth term BI Recognise and continue geometric and Fibonacci sequences EW Use Nth term to check whether a term lies in a sequence				
30-Sep	A	5	Representing Data Learning Outcomes: GW Construct Frequency diagrams with reasonable accuracy BI Construct frequency diagrams accurately EW Compare data sets using frequency polygons				
7-Oct	В	6	Equation of a Straight Line Learning Outcomes: GW Solve equations graphically, recognise gradient as rate of change of y-coordinate BI Calculate positive integer gradients and intercepts, find equation of a line EW Find equation of a line with negative or fractional gradient				
14-Oct	A	7 RQ 2	Two Way Tables and Venn Diagrams Learning Outcomes: GW Can enumerate a Venn diagram, complete a two-way table BI Can calculate probabilities from Venn diagrams and two-way tables EW Complete Venn diagrams given probabilities				
21-Oct	В	8	Rounding and Estimation Learning Outcomes: GW Round to 1 significant figure BI Round to 2 or 3 significant figures. Estimate using sig fig EW Estimate multi-calculation problems				

4.01			Description and Florida				
4-Nov A 9 Percentages and Finance							
			Learning Outcomes:				
			GW: Express a quantity as a Percentage				
			BI: Compare and explain different amounts using Percentage				
			EW: Efficiently use Multipliers to find a Percentage of an Amount				
11-Nov	В	10					
11-1100	В	ST1					
18-Nov	Α	11					
		ST1					
25-Nov	В	12	Substitution with Negative numbers				
		RQ 3	Learning Outcomes:				
			GW: Can multiply and divide with negatives				
			BI: Can substitute negative numbers into formulae				
			EW: Can substitute numbers into complex formulae, including powers and roots.				
2-Dec	Α	13	EBI to ST1				
09-Dec	В	14	Sharing in a Ratio, Unit Ratio				
			Learning Outcomes:				
			GW: Simplify to a Unit Ratio				
			BI: Share an amount into a given ratio				
			EW: Solve problems using sharing a ratio				
16-Dec	Α	15	Angles in Parallel Lines				
							
			<u>Learning Outcomes</u> :				
			GW: Identify the relationship between in angles in parallel lines BI: Use angle facts to find missing angles in parallel lines				
			EW: Explain what angle facts you have used to get an answer				
			211 219 411 1114 41.016 1444 704 1416 4404 40 806 411 41161161				
6-Jan	В	16	Averages & Mean from a Frequency Table				
		RQ 4	Learning Outcomes:				
			GW: Complete a data set from a known average				
			BI: Find the mean from a frequency table				
			EW: Find the median from a frequency table				
13-Jan	Α	17	Expanding Single Brackets				
10 00	, ,		Factorising Expressions				
			<u>Learning Outcomes</u> : GW: Expand arithmetic terms over brackets				
			BI: Expand algebraic terms over brackets				
			EW: Factorise to one bracket				
20-Jan	В	18	Constructions and Loci				
			Learning Outcomes:				
			GW: Can perform standard constructions				
			BI: Can use constructions to identify loci				
			EW: Use constructions and loci to solve problems				
27-Jan	Α	19	<u>Translation and Enlargements</u>				
		RQ 5					
			Learning Outcomes:				
			GW: Translate and object using column vectors BI: Scale a Column Vector				
			EW: Enlarge an object using a positive scale factor				

3-Feb	Feb B 20 <u>Solving Equations</u>						
			Learning Outcomes:				
			<u>Learning Outcomes</u> : GW: Can solve equations that include brackets				
			BI: Can form equations				
			EW: Can form and solve equations.				
10-Feb	Α	21	Mixed Numbers Ordering FDD				
			Ordering FDP				
			Learning Outcomes:				
			GW: Convert between mixed and improper fractions BI: Convert between Fractions, Decimals and Percentages				
			EW: Order Fractions, Decimals and Percentages				
25-Feb	-Feb B 22 Changing the Subject						
		RQ 6	Leaving Outcomes				
			Learning Outcomes: GW: Know the inverse operations				
			BI: Change the subject of a formula including 2 and 3 steps				
			EW: Change the subject of formula including fractions				
3-Mar	А	23	3D Shapes				
			Learning Outcomes:				
			GW: Draw a plan and elevation of a 3D object				
			BI: Draw a 3D object using isometric paper				
			EW: Combine understanding of drawing 3D objects with the volume of a prism				
10-Mar	В	24	Calculating with Fractions				
			Learning Outcomes:				
			GW: Add and Subtract with Mixed Numbers				
			BI: Multiply Fractions EW: Multiplying Mixed Numbers				
17-Mar	А	25 RQ 7	Probability / Relative Frequency				
			Learning Outcomes:				
			GW: Can find a probability of an event from performing an experiment BI: Can understand that the greater number of experiments, the more accurate the probability is				
			EW: Can use probability from an experiment to estimate real life implications				
24.84-		СТЭ					
24-Mar 31-Mar	B A	ST2 ST2					
22-Apr	В						
			Learning Outcomes:				
			GW: Solve simple direct proportion problems				
			BI: Use a scaling method to show best value EW: Apply best value to solve problems in context				
			Every pest value to solve problems in context				
28-Apr	А	29	<u>EBI</u>				
5-May	В	30	Speed, Distance, Time				
3 ividy							
	Learning Outcomes: GW: Know the relationship between Speed, Distance and Time						
			BI: Use scale to find the Speed, Distance or Time				
			EW: Use a formula to find the Speed, Distance or Time				

12-May	А	31 RQ 8	Solve Linear Inequalities Learning Outcomes: GW: Can solve linear inequalities requiring two steps BI: Can solve linear inequalities including fractions and brackets EW: Can solve linear inequalities with variables on both sides				
19-May	В	32	Learning Outcomes: GW: Find the HCF of two numbers BI: Find the LCM of two numbers EW: Solve problems involving the HCF and LCM				
2-Jun	A	33	Indices Learning Outcomes: GW: Can write a number as a power of a base BI: Can use laws of indices to simplify calculations EW: Can use laws of indices to solve equations				
9-Jun	В	34 RQ 9	Multiplying Decimals Learning Outcomes: GW: Multiply and Divide by a Power of 10 BI: Multiply Decimals by Decimals EW: Use the multiplication of decimals to help solve problems				
16-Jun	A	35	Plotting Quadratics Learning Outcomes: GW Can draw simple quadratic graphs from a table of values BI Can find approximate solutions to quadratic graphs EW Can recognise key points of Quadratic Curve, including its roots				
23-Jun	В	36	Converting between Metric Units for Area Learning Outcomes: GW Can understand how the scale factor is affected by area BI Can convert between metric area EW Can solve problems using scale factor of area				
30-Jun	A	37 RQ 10	Bearings and Scale Drawing Learning Outcomes: GW: Draw and Calculate Bearings BI: Understand and Interpret Scale Drawings EW: Combine Bearings with Scale Drawings				
7-Jul	В	38	<u>Direct Proportion Graphs</u> <u>Learning Outcomes</u> : GW: Can identify direct proportion from two variables and draw a graph to represent this BI: Can use a direct proportion to read of values EW: Can use a direct proportion graph to find exact values when the quantity is not shown on the axis				
14-Jul	Α	39	Recall/Enrichment				

^{*} Bank Holidays