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Year 8 Overview 2023-24 –Maths			
Date	**Wk**	**Week**	**Units Studied & Learning Outcomes**
Tues 5-Sep	A	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
11-Sep	B	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
18-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
25-Sep	B	4 RQ 1	Finding and Using the n^{th} 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
2-Oct	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
9-Oct	B	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
16-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
23-Oct	B	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

Half-Term	7 weeks (34 days)		
6-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
13-Nov	B	10 ST1	
20-Nov	A	11 ST1	
27-Nov	B	12 RQ 3	Multiplying and Dividing Negatives Substitution 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.
4-Dec	A	13	Even Better If Feedback to ST1
11-Dec	B	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
18-Dec	A	15	Angles in Parallel Lines Learning Outcomes: 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
Half-Term			6 weeks (30 Days)
8-Jan	B	16 RQ 4	Averages Mean from a Frequency Table 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
15-Jan	A	17	Expanding Single Brackets Factorising Expressions Learning Outcomes: GW: Expand arithmetic terms over brackets BI: Expand algebraic terms over brackets EW: Factorise to one bracket
22-Jan	B	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

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29-Jan	A	19 RQ 5	Translation and Enlargements Learning Outcomes: GW: Translate and object using column vectors BI: Scale a Column Vector EW: Enlarge an object using a positive scale factor
5-Feb	B	20	Changing the Subject 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
Half-Term			5 weeks (24 Days)
12-Feb	A	21	Mixed Numbers Ordering FDP Learning Outcomes: GW: Convert between mixed and improper fractions BI: Convert between Fractions, Decimals and Percentages EW: Order Fractions, Decimals and Percentages
26-Feb	B	22 RQ 6	Calculating with Fractions Learning Outcomes: GW: Add and Subtract with Mixed Numbers BI: Multiply Fractions, including mixed numbers EW: Adding and Multiplying Mixed Numbers in context
4-Mar	A	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
11-Mar	B	24	Solving Equations Learning Outcomes: GW: Can solve equations that include brackets BI: Can form equations EW: Can form and solve equations.
18-Mar	A	25 RQ 7	Probability 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
25-Mar*	B	26	Simple Direct Proportion 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
Half-Term			6 weeks (29 Days)

15-Apr	A	27	Speed, Distance, Time 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
22-Apr	B	ST2	
29-Apr	A	ST2	
6-May*	B	30 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
13-May	A	31	Even Better If Feedback to ST2 assessments.
20-May	B	32	HCF & LCM by listing Learning Outcomes: GW: Find the HCF of two numbers BI: Find the LCM of two numbers EW: Solve problems involving the HCF and LCM
Half-Term			7 weeks (35 Days**)**
3-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
10-Jun	B	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
17-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
24-Jun	B	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
1-Jul	A	37 RQ 10	Bearings and Scale Drawing Learning Outcomes: GW: Draw and Calculate Bearings BI: Understand and Interpret Scale Drawings

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			EW: Combine Bearings with Scale Drawings
8-Jul	B	38	Direct Proportion Graphs Learning Outcomes: 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
15-Jul	A	39 RQ11	Recall/Enrichment

* Bank Holidays