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What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Year 7 Overview 2023-24 – Mathematics			
Date	Wk	Week	Units Studied & Learning Outcomes
Half-Term			8 weeks (28 lessons) (35 Days)
Tues 5-Sep	Α	1	Calculation and Investigations
·			Learning Outcomes: GW: Know how to perform standard basic calculation methods BI: Perform standard calculations for more challenging values ('long') EW: Know when to apply standard calculation methods to solve problems
11-Sep	В	2	Using negative numbers effectively
			Learning Outcomes: GW: Know that negative numbers are the additive inverse. Know negatives as their position on the number line. BI: Know how to add and subtract with negative numbers EW: Know how to solve inverse operations problems with negatives
18-Sep*	Α	3	Order of Operations
		RQ 1	Learning Outcomes: GW: Know that the order of operations as describing the relative strength of the operations. BI: Know how to apply the order of operations for simple calculations EW: Know how to insert brackets into calculations to give a particular answer
25-Sep	В	4	Measures of 2D Shapes
			Learning Outcomes: GW: Know which measurements are necessary to calculate an area. BI: Know how to calculate areas of parallelograms, triangles, and trapezia. EW: Calculate missing lengths when given the area.
2-Oct	Α	5	Introduction to basic algebra notation
			Learning Outcomes: GW: Know that algebraic symbols represent unknown numerical values and that rules of arithmetic are preserved. BI: Know how to form expressions using simple operations EW: Know how to collect like terms to simplify expressions
9-Oct	В	6	Understanding Ratio and Fractions
		RQ 2	Learning Outcomes: GW: Know that ratios compare parts with parts, fractions compare parts with the whole BI: Know how to represent relationships with a ratio, simplify ratios EW: Complete equivalent ratios
16-Oct	Α	7	Properties of 2D shapes
			Learning Outcomes: GW: Know that the 2D shapes are defined by properties involving equality and their notations. BI: Know how to classify shapes according to their properties.

			EW: Know how to solve problems, including angle problems, using the properties.
23-Oct	В	8	Representing Categorical Data
			Learning Outcomes: GW: Know that the height of the bar represents the frequency. BI: Know how to construct and read composite and comparative bar charts. EW: Know how to interpret bar charts, and use them to compare data sets.
Half-Term			7 weeks (24 lessons) (35 Days)
6-Nov	Α	9	Angle facts
		RQ 3	Learning Outcomes: GW: Know the angle sum of a full, and half turn. BI: Know how to calculate angles, including exterior angles of regular polygons EW: Form and solve equations using angle facts
13-Nov	В	10	Form & solve linear equations
13 110	5	10	Learning Outcomes: GW: Know that an equation shows that two expressions are equal. Know which operations are inverses of each other BI: Know how to solve linear equations with one or two operations. EW: Know how to use an equation to represent a problem and then to solve it.
20-Nov	Α	11	Use of a Calculator and Calculation with Decimals
1			Learning Outcomes: GW: Know how to perform basic arithmetic calculations on the
			calculator. BI: Calculate with decimals for simple cases EW: Know how to use the fractions, square, and square root functions on a calculator.

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4-Dec	А	ST1	
11-Dec	В	14	3D shapes
		RQ 4	Learning Outcomes: GW: Know the definitions of face, edge, and vertex. Know names of common solids. BI: Know how to calculate the volume of cuboids and prisms. EW: Know when to use the volume of a prism to solve a problem.
18-Dec	Α	15	EBI
Christmas Ho	liday		7 weeks (25 lessons) (33 Days)
8-Jan	В	16	Writing Formulae & Substitution
			Learning Outcomes: GW: Know that an expression represents a calculation to a variable that gives a value, and a formula is a rule that links two of more variables. BI: Know how to substitute values into formulae and evaluate them. EW: Know how to form formulae to represent situations.
15-Jan			Metric Units
	A	17	Learning Outcomes: GW: Know that the metric system uses powers of 10 to convert between measures in a consistent way. BI: Know how to convert metric measures for length, mass, and capacity. EW: Know when to convert units in order to solve a problem.
22-Jan	В	18	Rounding
		RQ 5	Learning Outcomes: GW: Know that rounding shows which multiple a value is closest to. BI: Know how to round to powers of 10 (including 1 d.p.) and multiples of 1-12. EW: Know when to use rounding in simple estimation, particularly division.
29-Jan	Α	19	Vertical & horizontal lines in 4 quads
			Learning Outcomes: GW: Know that patterns in coordinates produce linear representations BI: Plot, and recognise, equations of the form $x=a$ and $y=b$. EW: Plot, and recognise, equations of the form $y=x$ and $y=-x$
5-Feb	В	20	Reflection & rotation Learning Outcomes: GW: Know that a reflection is defined by its mirror line, a rotation is defined by its centre and angle of turn. BI: Know how to perform and describe horizontal and vertical reflections. Know how to rotate shapes by any centre by multiples of 90° . EW: Know how to perform and describe reflections in the lines $y = x$, $y = -x$. Know how to fully describe rotations.
12-Feb	Α	21	Factors, multiples, primes
		RQ 6	<u>Learning Outcomes</u> :

	T		
			GW: Know that a factor of an integer divides it exactly, that a multiple is the result of integer multiplication, that primes have exactly two factors BI: Know how to test for divisibility, identify factors and multiples of a number, learn squares and associated roots. EW: Identify factors of algebraic expressions.
Half Tarm			E wooks (17 lossons) (25 Days)
Half-Term	Τ -	1	5 weeks (17 lessons) (25 Days)
26-Feb	В	22	Learning Outcomes: GW: Know that probabilities lie on a scale 0-1. Know that theoretical probabilities can be calculated when all the outcomes are equally likely. BI: Describe probabilities as fractions, use the fact that P(event) + P(event not) = 1 EW: Understand that probabilities decrease as move variables are included, decease as more success cases are considered [and rule/or rule]
4-Mar	A	23	Constructions Learning Outcomes: GW: Know that given sets of information produce congruent triangles. BI: Know how to construct triangles given minimal information. EW: Know how to construct rhombuses and kites and derive standard constructions from them.
11-Mar	В	24	FDP equivalences
		RQ 7	Learning Outcomes: GW: Know that decimals and percentages are representations of particular types of fractions BI: Know how to fluently convert between FDP representations of multiples of 5% EW: Know how to use equivalence to order sets of fractions, decimals and percentages
18-Mar	Α	25	Generate sequences
			Learning Outcomes: GW: Know that number sequences can be generated by (and described by) functions. BI: Know how to generate and describe rules using term-to-term and position-to-term rules. EW: Know when a term will be part of a sequence and justify it.
25-Mar*	В	26	Adding & subtracting fractions
			Learning Outcomes: GW: Know that only fractions with like denominators can be easily added. BI: Know how to use equivalent fractions to add and subtract fractions with unlike denominators. EW: Know when to apply fraction calculation skills in contexts.
Easter Holida	y ^{6,7}		6 weeks (21 lessons) (29 Days)
15-Apr	A	27 RQ 8	Proportion: Scaling Learning Outcomes: GW: Know that quantities in direct proportion can be scaled
			multiplicatively.

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			BI: Know how to solve proportion problems, including those with an intermediary step. EW: Know how to use proportion to make comparisons.
			EW. Know now to use proportion to make compansons.
22-Apr	В	28	Learning Outcomes: GW: Know that a percentage is a fraction with denominator of 100. BI: Know how to calculate percentages of amounts with multiples of 5% EW: Know how to increase/decrease by a percentage (multiple of 5%)
29-Apr	Α	29	Changing the subject
			Learning Outcomes: GW: Know that a formula shows an arithmetic connection between two variables BI: Know how to change the subject of a one-step formula EW: Know how to change the subject of a formula involving more than two variables.
6-May*	В	30	Averages
		RQ 9	Learning Outcomes: GW: Know that averages are a measure of central tendency and know each one's limitations. BI: Know how to identify averages from a small data set. EW: Know when averages can be used to compare data sets.
13-May	Α	ST2	
	1		
20-May	В	ST2	
Half-Term		-	7 weeks (25 lessons) (35 Days)
•	A	33	7 weeks (25 lessons) (35 Days) Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities EW: Represent and read inequalities on number lines
Half-Term		-	Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities
Half-Term 3-Jun	A	33	Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities EW: Represent and read inequalities on number lines
Half-Term 3-Jun 10-Jun	A	33	Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities EW: Represent and read inequalities on number lines EBI Plot graphs of linear functions Learning Outcomes: GW: Know that a function generates infinitely many coordinate pairs that satisfy it. BI: Know how to plot graphs of simple one and two operation functions. EW: Know why the change of a term in a function may alter its graph
Half-Term 3-Jun 10-Jun 17-Jun	A B A	33 34 35	Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities EW: Represent and read inequalities on number lines EBI Plot graphs of linear functions Learning Outcomes: GW: Know that a function generates infinitely many coordinate pairs that satisfy it. BI: Know how to plot graphs of simple one and two operation functions. EW: Know why the change of a term in a function may alter its graph in a particular way.
Half-Term 3-Jun 10-Jun 17-Jun	A B A	33 34 35	Representing inequalities on a number line Learning Outcomes: GW: Understand inequality notation, including combined > and = BI: Describe rules using inequalities EW: Represent and read inequalities on number lines EBI Plot graphs of linear functions Learning Outcomes: GW: Know that a function generates infinitely many coordinate pairs that satisfy it. BI: Know how to plot graphs of simple one and two operation functions. EW: Know why the change of a term in a function may alter its graph in a particular way. Solving problems involving time, timetables and two-way tables Learning Outcomes: GW: Know that timetables show the progress of a vehicle vertically. BI: Know how to convert between 12hy and 24hr time, Know how to read, and calculate with, information from a timetable.

			GW: Know that a time series shows the fluctuations of a measure with respect to time. BI: Know how to plot and read time series charts. EW: Know how to identify trends of, and extrapolate from, time series charts.
8-Jul	В	38	Real life graphs – No explicit use of speed formula Learning Outcomes: GW: Know that distance-time graphs measure relative distance with respect to time. BI: Know how to plot and interpret distance-time graphs EW: Know how to plot and interpret distance-time graphs when given speed information.
15-Jul	Α	39	

^{*} Bank Holidays