Maths Year 8 Learning Journey 2024-2025

Week	Date	Key Constructs	Component Knowledge	Assessment
1 (Thu)	05.09.24		INTRO to the year ahead inc SPARX Lesson	
2	09.09.24	Sequences	 Identify patterns and missing terms in sequence Describe term to term rules Generate terms of sequences from either term-to-term or position-to-term rules Recognise Geometric sequences Identify sequences involving sequences 	Unit 1 Review
3	16.09.24		 Identify Fibonacci style sequences 	
4	23.09.24		Plotting Straight Line graphs from tables using both positive and pegative augdrapts	Unit 2
5	30.09.24	Graphs	 Drawing and interpreting Real-life graphs that model 	Review
6	07.10.24		situations	
7	14.10.24	Angles	 Understand & use the relationship between Parallel Lines, Alternate, Corresponding & Allied angles Understand and use the properties of regular Polygons and their angles 	Unit 3
8	21.10.24		 Derive & use the sum of angles in a triangle and use it to deduce the angle sum in any polygon, and to derive properties of regular polygons. 	Review
Half term				
9	04.11.24	Construction of the second	 Measure and draw bearings Use scale factors, scale diagrams and maps Draw and measure line segments and angles in geometric figures 	Unit 4
10	11.11.24	Constructions	 Draw and interpret scale Drawings Construction accurate diagrams using ruler & protractor Construct triangles given two sides and angle Construct triangles given two angles and a side 	Review
11	18.11.24		Use the 4 operations applied to integers	Unit 5
12	25.11.24	Calculations	Use the 4 operations on decimals to; Multiply and Divide Decimals	Review
13	02.12.24	Negative	 Use the number line as a model for ordering real numbers Understand and use symbols =, ≠, <, >, ≤, ≥. 	Unit 6
14	09.12.24	NUMbers	Ose the 4-operations applied to integers to; Add and subtract Negative Numbers Multiply and Divide Negative Numbers	Keview
15	16.12.24		Revision and Prep	End of Term 1 Progress Test
			CHRISTMAS	
16	06.01.25		Identify and simplify equivalent fractions	lloit 7
17	13.01.25	Fractions	 Ose the 4-operations applied to tractions to; Add & subtract Fractions, Find fractions of amounts, Multiply & Divide Fractions 	Review
18	20.01.25	Expressions and Formulas	 Use & interpret algebraic notation including: ab in place of a × b; 3y in place of y + y + y and 3 × y; a2 in place of a × a, a3 in place of a × a × a; a2b in place of a × a × b; a/b in place of a ÷ b; Evaluate by substituting numerical values into formulas and expressions 	Unit 8 Review

19	27.01.25		 Simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors Expand brackets and Factorise algebraic expressions by identifying common factors Rearrange Formulas to change the subject 	
20	03.01.25		 Use algebraic methods to solve linear equations in one variable 	Unit 9
21	10.02.25	Equations	Solve equations with unknowns on both sides	Review
			Solve Equations involving Brackets	
			 Identify & illustrate properties of Triangles & 	
22	24.02.25	Working with	 Quadrilaterals. [e.g. equal lengths & angles] using appropriate language. Find the area & perimeter of shapes made from 	Unit 10
23	03.03.25	20 5114905	triangles & rectangles Find area of triangles, trapeziums & parallelograms	Review
24	10.03.25	Properties of	 Identify & use properties of faces, surfaces, edges & vertices of cubes, cuboids, prisms, cylinders, pyramids, cones & spheres to solve problems in 3D 	Unit 11
25	17 03 25	- 3D Shapes	Draw and identify Nets of 3D shapes Calculate Surface Areas & Visione of Culture & Culture interview	Review
20	17.00.20		Calculate Surface Area & Volume of Cubes & Cubolas Convert between fractions decimals & percentages	
26	24.03.25	Percentages	 Calculate percentages of amounts including simple interest in financial mathematics. Calculate Percentage increase & decrease to solve 	
27	31.03.25		original value problems • Calculate Percentage Change including profit & loss	
Calculate Percentage Change including profit & loss. FASTER				
			EASTER	
28(BH)	21.04.25		EASTER Exam Prep	Annual
28(BH) 29	21.04.25 28.04.25		EASTER Exam Prep Annual Exams	Annual Exams
28(BH) 29 30(BH)	21.04.25 28.04.25 06.05.25		EASTER Exam Prep Annual Exams RAP/ addressing misconceptions	Annual Exams
28(BH) 29 30(BH) 31	21.04.25 28.04.25 06.05.25 12.05.25	Multiplicative	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions • Use ratio notation, including simplifying ratios • To divide quantities in a given ratio • Solve problems involving direct and inverse proportion, including graphical and algebraic representations.	Annual Exams Unit 13 Poviow
28(BH) 29 30(BH) 31 32	21.04.25 28.04.25 06.05.25 12.05.25 19.05.25	Multiplicative Reasoning	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions Use ratio notation, including simplifying ratios To divide quantities in a given ratio Solve problems involving direct and inverse proportion, including graphical and algebraic representations. Understand & interpret Conversion Graphs to convert units. Evaluate Value for Money problems using direct and inverse proportion	Annual Exams Unit 13 Review
28(BH) 29 30(BH) 31 32	21.04.25 28.04.25 06.05.25 12.05.25 19.05.25	Multiplicative Reasoning	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions Use ratio notation, including simplifying ratios To divide quantities in a given ratio Solve problems involving direct and inverse proportion, including graphical and algebraic representations. Understand & interpret Conversion Graphs to convert units. Evaluate Value for Money problems using direct and inverse proportion Half term	Annual Exams Unit 13 Review
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28(BH) 29 30(BH) 31 32 32 33	21.04.25 28.04.25 06.05.25 12.05.25 19.05.25 02.06.25	Multiplicative Reasoning Working with Data	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions Use ratio notation, including simplifying ratios To divide quantities in a given ratio Solve problems involving direct and inverse proportion, including graphical and algebraic representations. Understand & interpret Conversion Graphs to convert units. Evaluate Value for Money problems using direct and inverse proportion Half term Calculate mean, median, mode and range from Frequency Tables. Construct & interpret appropriate tables, charts, &	Annual Exams Unit 13 Review Unit 14 Review
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28(BH) 29 30(BH) 31 32 32 33 33 34 35	21.04.25 28.04.25 06.05.25 12.05.25 19.05.25 09.06.25 09.06.25 16.06.25	Multiplicative Reasoning Working with Data Circles	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions • Use ratio notation, including simplifying ratios • To divide quantities in a given ratio • Solve problems involving direct and inverse proportion, including graphical and algebraic representations. • Understand & interpret Conversion Graphs to convert units. • Evaluate Value for Money problems using direct and inverse proportion Half term • Calculate mean, median, mode and range from Frequency Tables. • Construct & interpret appropriate tables, charts, & diagrams, including frequency tables & pie charts. • Identify parts of a circle • Calculate and solve problems involving Circumference of a circle and areas of circles	Annual Exams Unit 13 Review Unit 14 Review Unit 15 Review
28(BH) 29 30(BH) 31 32 32 33 34 35 36	21.04.25 28.04.25 06.05.25 12.05.25 12.05.25 09.05.25 09.06.25 09.06.25 16.06.25 23.06.25	Multiplicative Reasoning Working with Data Circles	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions Use ratio notation, including simplifying ratios To divide quantities in a given ratio Solve problems involving direct and inverse proportion, including graphical and algebraic representations. Understand & interpret Conversion Graphs to convert units. Evaluate Value for Money problems using direct and inverse proportion Half term Calculate mean, median, mode and range from Frequency Tables. Construct & interpret appropriate tables, charts, & diagrams, including frequency tables & pie charts. Identify parts of a circle Calculate and solve problems involving Circumference of a circle and areas of circles Apply angle facts, triangle congruence, similarity & properties of quadrilaterals to derive Pythagoras'	Annual Exams Unit 13 Review Unit 14 Review Unit 15 Review
28(BH) 29 30(BH) 31 32 32 33 34 35 36 37	21.04.25 28.04.25 06.05.25 12.05.25 12.05.25 09.06.25 09.06.25 16.06.25 23.06.25 30.06.25	Multiplicative Reasoning Working with Data Circles Pythagoras' Theorem	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions Use ratio notation, including simplifying ratios To divide quantities in a given ratio Solve problems involving direct and inverse proportion, including graphical and algebraic representations. Understand & interpret Conversion Graphs to convert units. Evaluate Value for Money problems using direct and inverse proportion Half term Calculate mean, median, mode and range from Frequency Tables. Construct & interpret appropriate tables, charts, & diagrams, including frequency tables & pie charts. Identify parts of a circle Calculate and solve problems involving Circumference of a circle and areas of circles Apply angle facts, triangle congruence, similarity & properties of quadrilaterals to derive Pythagoras' Theorem	Annual Exams Unit 13 Review Unit 14 Review Unit 15 Review Unit 16 Review
28(BH) 29 30(BH) 31 32 32 33 34 35 36 37 38	21.04.25 28.04.25 06.05.25 12.05.25 12.05.25 09.06.25 09.06.25 16.06.25 23.06.25 30.06.25	Multiplicative Reasoning Working with Data Circles Pythagoras' Theorem	EASTER Exam Prep Annual Exams RAP/ addressing misconceptions • Use ratio notation, including simplifying ratios • To divide quantities in a given ratio • Solve problems involving direct and inverse proportion, including graphical and algebraic representations. • Understand & interpret Conversion Graphs to convert units. • Evaluate Value for Money problems using direct and inverse proportion Half term • Calculate mean, median, mode and range from Frequency Tables. • Construct & interpret appropriate tables, charts, & diagrams, including frequency tables & pie charts. • Identify parts of a circle • Calculate and solve problems involving Circumference of a circle and areas of circles • Apply angle facts, triangle congruence, similarity & properties of quadrilaterals to derive Pythagoras' Theorem • Use Pythagoras' Theorem to solve problems involving right-angled Triangles	Annual Exams Unit 13 Review Unit 14 Review Unit 15 Review Unit 16 Review

Name:		Autumn	Spring	Summer
Subject Target	Flightpath			
Annual Exam Grade:	BFL			

Date	Assessment	% score	Action (s) to make progress
	Sequences		
	Graphs		
	Angles		
	Constructions		
	Calculations		
	Negative Numbers		
	End of Term 1 Progress Test		
	Fractions		
	Expressions and Formulas		
	Equations		
	2D and 3D Shapes		
	End of Term 2 Progress Test		
	Percentages		
	Annual Exam		
	Multiplicative Reasoning		
	Working With Data		
	Circles		
	Pythagoras Theorem		