

Year 9 Maths Pi Learning Journey 2020-21

Week	Date	Key Constructs	Topics	Assessment
1	07.09.20	Types of number Written methods Negative numbers	<ul style="list-style-type: none"> • Adding and subtracting • Multiplying • Dividing • Multiplying and dividing negative numbers • Squares, cubes and roots • More powers • Calculations 	Unit 1 - Number calculations
2	14.09.20			
3	21.09.20			
4	28.09.20	Algebraic manipulation Sequences and functions Equations	<ul style="list-style-type: none"> • Algebraic expressions • Using the nth term • Finding the nth term • Solving equations 	Unit 2 - Sequences and equations
5	05.10.20			
6	12.10.20			
7	19.10.20			
HALF TERM				
8	02.11.20	Data: collecting and organising Data: analysing and representation	<ul style="list-style-type: none"> • Planning a survey • Statistics from tables • Comparing data • Tables • Pie charts and scatter graphs • FINANCE: Misleading graphs • Writing a report 	Unit 3 - Statistics
9	09.11.20			
10	16.11.20	Fractions Percentages Fractions Types of number Place value and rounding	<ul style="list-style-type: none"> • Equivalent proportions • Recurring decimals • Adding and subtracting fractions • Multiplying fractions • Dividing fractions • Comparing proportions • FINANCE: Percentage change 	Unit 4 - Fractions, decimals and percentages (not assessed)
11	23.11.20			
12	30.11.20			
13	07.12.20		Revision for End of Term Assessment End of Term assessment, RAP and a Christmas Activity	Units 1-4 End of Term Assessment
14 (½ week)	14.12.20			
CHRISTMAS				
15	04.01.21	Angles Measures and construction	<ul style="list-style-type: none"> • Angles • Maps and scales • Constructions • 3D solids • MODELLING: Pythagoras' theorem 	Unit 5 - Geometry in 2D and 3D
16	11.01.21			
17	18.01.21	Polygons and polyhedral Pythagoras		
18	25.01.21	Graphs	<ul style="list-style-type: none"> • Reading graphs • Plotting graphs • Distance-time graphs • Midpoints • Intercepts and gradients 	Unit 6 - Algebraic and real-life graphs
19	01.02.21			
20	08.02.21			
HALF TERM				
21	22.02.21	Ratio	<ul style="list-style-type: none"> • STEM: Using ratios • Using proportions • Problem-solving with proportions • Measures and conversions 	Unit 7 - Multiplicative reasoning
22	01.03.21	Proportional reasoning Measures		

Week	Date	Key Constructs	Topics	Assessment
23	08.03.21	Substitution and formula	<ul style="list-style-type: none"> Substituting into formulae More complex formulae Formulae in geometry Compound shapes Circles 	Unit 8 - Algebraic and geometric formulae (not assessed)
24	15.03.21			
25	22.03.21		Revision for EOYE	
26 (½ week)	29.03.21			
EASTER				
27	19.04.21		EOYE RAP	EOYE
28	26.04.21			
29	04.05.21 (BH)	Probability	<ul style="list-style-type: none"> Probability experiments Sample space diagrams MODELLING: Two-way tables Tree diagrams 	Unit 9 - Probability
30	10.05.21	Data: collecting and organising		
31	17.05.21			
32	24.05.21			
HALF TERM				
33	07.06.21	Written methods	<ul style="list-style-type: none"> Calculations Decimal numbers Place value Factors and multiples Squares, cubes and roots Index notation Prime factors 	GCSE Unit 1 - Number
34	14.06.21	Types of number		
35	21.06.21	Place value and rounding		
		Indices		
36	28.06.21	Algebraic manipulation	<ul style="list-style-type: none"> Algebraic expressions Simplifying expressions Substitution Formulae Expanding brackets Factorising Using expressions and formulae 	GCSE Unit 2 – Algebra (not assessed)
37	05.07.21			
38	12.07.21			
39	19.07.21			