

Year 10 Foundation Mathematics Learning Journey 2020-21

Unit 1–Number and Unit 2-Algebra were covered in the summer term of year 9.

Week	Date	Key Constructs	Topics	Assessment
1	07.09.20	Data: analysing and representation Data: collecting and organising	<ul style="list-style-type: none"> • Frequency tables • Two-way tables • Representing data • Time series • Stem and leaf diagrams • Pie charts • Scatter graphs • Line of best fit 	Unit 3 - Graphs, tables and charts
2	14.09.20			
3	21.09.20			
4	28.09.20	Fractions Percentages Place value and rounding Types of number	<ul style="list-style-type: none"> • Working with fractions • Operations with fractions • Multiplying fractions • Dividing fractions • Fractions and decimals • Fractions and percentages • Calculating percentages 	Unit 4 - Fractions and percentages
5	05.10.20			
6	12.10.20			
7	19.10.20			
HALF TERM				
8	02.11.20	Equations and inequalities Sequences and formula	<ul style="list-style-type: none"> • Solving equations • Solving equations with brackets • Introducing inequalities • More formulae • Generating sequences • Using the nth term of a sequence 	Unit 5 - Equations, inequalities and sequences Assessment (Unit 1-5)
9	09.11.20			
10	16.11.20			
11	23.11.20			
12	30.11.20	Angles and geometric proof	<ul style="list-style-type: none"> • Properties of shapes • Angles in parallel lines • Angles in triangles • Exterior and interior angles • More exterior and interior angles • Geometrical patterns 	Unit 6 - Angles
13	07.12.20			
14 (½ week)	14.12.20			
CHRISTMAS				
15	04.01.21	Data: Collecting and organising	<ul style="list-style-type: none"> • Mean and range • Mode, median and range • Mode, median and range • Estimating the mean • Sampling 	Unit 7 - Averages and range
16	11.01.21			
17	18.01.21			
18	25.01.21	Polygons and polyhedra Perimeter, area and volume	<ul style="list-style-type: none"> • Rectangles, parallelograms and triangles • Trapezia and changing units • Area of compound shapes • Surface area of 3D solids • Volume of prisms • More volume and surface area 	Unit 8 - Perimeter, area and volume 1 Assessment (Unit 1-8)
19	01.02.21			
20	08.02.21			
HALF TERM				
21	22.02.21	Graphs	<ul style="list-style-type: none"> • Coordinates • Linear graphs • Gradient • $y = mx + c$ • Real-life graphs • Distance-time graphs • More real-life graphs 	Unit 9 - Graphs
22	01.03.21			
23	08.03.21			
24	15.03.21	Coordinates and transformations	<ul style="list-style-type: none"> • Translation • Reflection • Rotation • Enlargement • Describing enlargements • Combining transformations 	Unit 10 - Transformations
25	22.03.21			
26 (½ week)	29.03.21			
EASTER				

Week	Date	Key Constructs	Topics	Assessment
27	19.04.21			
28	26.04.21		Revision for EOYE	
29	04.05.21 (BH)		EOYE RAP	EOYE
30	10.05.21			
31	17.05.21			
32	24.05.21	Ratio Proportional reasoning	<ul style="list-style-type: none"> • Writing ratios • Using ratios • Ratios and measures • Comparing using ratios • Using proportion • Proportion and graphs • Proportion problems 	Unit 11 - Ratio and proportion
HALF TERM				
33	07.06.21	Pythagoras	<ul style="list-style-type: none"> • Pythagoras' theorem • Trigonometry: the cosine ratio • Trigonometry: the tangent ratio • Finding lengths and angles using trigonometry 	Unit 12 - Right-angled triangles
34	14.06.21			
35	21.06.21	Trigonometry		
36	28.06.21	Probability	<ul style="list-style-type: none"> • Calculating probability • Two events • Experimental probability • Venn diagrams • Tree diagrams 	Unit 13 -Probability
37	05.07.21			
38	12.07.21			
39	19.07.21			

Year 10 Foundation Mathematics Progress Tracker

FLIGHT PATH STICKER	<p><u>Key Constructs</u></p> <ul style="list-style-type: none"> Number, ratio and proportion Algebra Shape Statistics and probability
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Date	Assessment T = teacher assessed	Flight Path Grade	Action (s) to make progress
	Unit 3 - Graphs, tables and charts		
	Unit 4 - Fractions and percentages		
	Unit 1 - 5		
	Unit 6 - Angles		
	Unit 7 - Averages and range		
	Unit 1 - 8		
	Unit 9 - Graphs		
	Unit 10 - Transformations		
	EOYE		
	Unit 11 - Ratio and proportion		
	Unit 12 - Right-angled triangles		

	Unit 13 -Probability		
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