Year 11 Autumn T1 - Topic: Bearings and Scale Drawings

Prior learning:

Understand congruence and identifying congruent shapes Draw and measure lines and angles Construct circles
Understand equidistance

Objectives					
End Points	S	Foundation		Crossover	
 Find bearings from diagrams and 	ep	Know the three rules of bearings	0	Bearings with Pythagoras	
worded questions	St	 Find the bearing between two points 			
 Use and interpret scale factors, scale 	ing	 Draw a point on a fixed bearing from another point 		Higher	
drawings and maps	Z.	 Given a bearing, find the reverse bearing 	0	Bearings with Trigonometry	
 (H) Bearings with Pythagoras and 	ea	Use and interpret map scales			
Trigonometry	_	 Draw and interpret scaled diagrams in real-life contexts 			

Where will we use these ideas again:

Bearings will be revisited again with trigonometry and angles in parallel lines and scale drawings as a concept is revisited within enlargement.

Higher: Bearings with sine rule and cosine rule

Year 11 Autumn T1 - Topic: Handling Data 2

Prior learning:

Average and range from a list

Averages and range from a frequency table

Frequency polygons

Objectives				
End Points		Foundation	Crossover	
 Recap: data topic Recap: Frequency polygons Construct cumulative frequency diagrams 	Learning Steps	Recap – Year 10 Autumn term 1 – Handing Data Recap – Year 9 Spring term 1 – Data Collection	Higher	

Where will we use these ideas again:		

Year 11 Autumn T1 - Topic: Non-Linear Graphs and Linear Graph Review - FOUNDATION

Prior learning:

Draw and interpret linear graphs
Draw quadratic graphs
Identify turning points and roots of quadratic graphs

Sketch quadratics Substitution and solving Completing the square

Objectives				
End Points		Foundation	Crossover	
 Recap – Linear graphs Recap – Plotting graphs Real life graphs Plot and recognise cubic graphs Plot and recognise reciprocal graphs Recognise exponential graphs 	Learning Steps	 Recap – year 10 autumn term 1 - drawing linear graphs and y = mx + c Recap – year 10 spring term 1 – plotting linear graphs including quadratic graphs Recognise graphs from real life scenarios (e.g. filling different flasks) Plot and draw a cubic graph Recognise and sketch simple cubic functions Recognise non-linear graphs and their equations Plot and draw a reciprocal graph Recognise and sketch simple reciprocal functions 	Recognise exponential graph Higher	

Where will we use these ideas again:			

Year 11 Autumn T1 - Topic: Inequalities and Algebra Review Learning Journey

Prior learning:

Re-arrange formula Represent inequalities on a number line Solve linear inequalities

Drawing linear and quadratic graphs

Objectives				
End Points		Foundation	Crossover	
 Recap of inequalities and algebra 	ng Steps	o Recap – Year 10 autumn term 1 – linear sequences		
	Learni	 Recap – Year 10 spring term 1 – simultaneous equations 	Higher	

Year 11 Autumn T2 - Topic: Combined Events and Probability Trees

Prior learning:

Express a probability as fraction, decimal or percentage

Mutually exclusive events

'OR' rule in probability

Systematic listing

Relative and theoretical probability

Estimate outcomes

Objectives					
End Points		Foundation		Crossover	
 Interpret and draw Venn diagrams Use set notation Probability and Venn diagrams Draw and interpret tree diagrams with replacement 	Learning Steps		0	Find probabilities of successive independent events without a tree diagram Higher	

Year 11 Spring T1 - Topic: Vectors

Prior learning:

Simplify expressions Expand expressions Factorise expressions

Objectives					
End Points		Foundation	Crossover		
 Represent vectors in 2D Calculate with vectors in 2D 	Steps		Represent a two-dimensional vector as a column vector Multiply and divide vectors by scalars Add and subtract vectors and/or multiples of vectors		
	Learning		Higher		

Year 11 Spring T1 - Topic: Number and Accuracy Review

Prior learning:

Number Calculations

Accuracy

Objectives				
End Points		Foundation	Crossover	
 Recap – Number Recap – Accuracy and Calculations 	arning	Recap – Year 9 autumn term 1 – factors, multiples and roots Recap – Year 9 spring term 2 – accuracy and calculations Recap – Year 10 autumn term 1 – standard form	Higher	
	Lea	necap – real 10 autumi temi i – standard form		

Year 11 Spring T1 - Topic: FDP, Percentages and Ratio Review

Prior learning:

Fraction, Decimal and Percentage Percentages

Ratio

Objectives				
End Points		Foundation	Crossover	
 Recap – Fraction, decimal and percentage 	ning	Recap – Year 9 spring term 1 – fraction, decimal and percentages Recap – Year 9 spring term 1 – similarity		
 Recap – Percentages Recap - Ratio 	Learr	Recap – Year 10 autumn term 2 – percentages and ratio	Higher	

Year 11 Spring T1 - Topic: Angles, Transformations and Constructions Review

Prior learning:

Transformations Angles

Objectives				
End Points		Foundation	Crossover	
 Recap – Angles in polygons Recap – Transformations Recap - Constructions 	Learning	Recap – Year 9 summer term 2 – Angles in polygons Recap – Year 10 spring term 1 – Transformations Recap – Year 10 summer term 2 - Constructions	Higher	

Year 11 Spring T1 - Topic: Shape Review

Prior learning:

Shape in 2D Shapes in 3D

Objectives				
End Points	SC	Foundation	Crossover	
Recap – Pythagoras TheoremRecap – Area in 2D Shapes	Ste	Recap – Year 9 autumn term 1 – Pythagoras Theorem Recap – Year 9 autumn term 2 – Area of 2D Shapes		
Recap - Area in 2D Shapes Recap - Circles	ing	Recap – Year 10 autumn term 2 and spring term 1 – Circles	Higher	
Recap – TrigonometryRecap – Working in 3D	Learr	Recap – Year 10 spring term 2 – Trigonometry Recap – Year 10 summer term 1 – Working in 3D		

Year 11 Spring T1 - Topic: Sequences and Algebra Review

Prior learning:

Sequences Algebra

Objectives						
End Points	S	Foundation	Crossover			
Recap – SequencesRecap – Algebra	Learning Step	Recap – Year 9 autumn term 1 & 2 – Linear expressions, equations and formulae Recap – Year 9 summer term 1 – Quadratics Recap – Year 10 autumn term 1 – Linear sequences Recap – Year 10 spring term 1 – Simultaneous equations	Higher			

Year 11 Spring T1 - Topic: Compound Measure and Proportionality Review

Prior learning:

Sequences Algebra

Objectives						
End Points		Foundation	Crossover			
 Recap – Compound Measures Recap – Units and Proportionality 	rning	 Recap – Year 9 spring term 2 – Compound Measures Recap – Year 10 spring term 2 – Units and Proportionality Recap – Year 10 summer term 1 – Congruence and Similarity 				
 Recap – Congruence and Similarity 	Learı		Higher			

Year 11 Spring T1 - Topic: Data and Statistics Review

Prior learning:

Data

Statistics

Objectives						
End Points	S	Foundation	Crossover			
Recap – Data CollectionRecap – Handling Data	arning Step	Recap – Year 9 spring term 1 – Data Collection Recap – 10 autumn term 2 – Handling Data				
		10 data iii toiii 2 Tidhaang Bata	Higher			
	Lea					