Year 11	Big Questions (Foundation)	Small Questions Foundation	Big Questions Higher	Small Questions Higher
Autumn 1	Similarity and congruence (8 lessons)	• Recap angle notation • Congruent triangles • Angle problems involving congruence • Identify similar shapes • Find missing lengths in similar shapes •	Reciprocal and exponential graphs: Graph Transformations, Gradient and area under graphs (8 lessons)	• Plot reciprocal graphs • Graphs of exponential growth and decay • Graph transformations • Area under a graph • Gradient of a curve
	Recap of Pythagoras and Trigonometry (4 lessons)	• Calculating missing sides using Pythagoras • Calculate missing angles using trigonometry • Calculate missing sides using trigonometry • Non calculator trigonometry • Solving problems involving Pythagoras and trigonometry	Further Trigonometry (8 lessons)	• 3D Pythagoras • 3D Trigonometry • Trigonometry and bearings • Area of a triangle • Use Sine rule • Use Cosine rule • Solving multi stage problems
	Mini Test			
	Recap averages and charts (10 lessons)	• Mean, mode, median and range for discrete data • Calculate the mean, mode, median and range from a frequency table • Calculate the mean from a grouped frequency table • Mean, mode, median and range from a stem and leaf diagram • Complete and interpret two-way tables • Draw and interpret statistical charts	Cumulative frequency, box plots and histograms (8 lessons)	• Recap averages • Compare data using averages • Draw and interpret cumulative frequency charts • Median and IQR from cumulative frequency charts • Draw and interpret box plots • Compare data using box plots • Draw and interpret histograms • Estimate the mean from a histogram
	Mini Test			

Rearranging equations, graphs of cubic and reciprocal functions (6 lessons)	• Change the subject of an equation • Show that questions using consecutive numbers • Recap linear graphs • Recap quadratic graphs • Draw and interpret cubic graphs • Draw and interpret reciprocal graphs	Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics (7 lesson)	• Sketch quadratic graphs • Find solutions from quadratic graphs • Sketch cubic graphs • Solve simultaneous equations graphically • Solve linear inequalities graphically • Solve quadratic inequalities (sketching graph to show regions)
Equations (5 lessons)	• Recap solving linear equations • Solve simple simultaneous equations • Solve simultaneous equations which involving scaling up • Form and solve simultaneous equations	Circle Theorems (6 lessons)	• Use circle theorems • the angle subtended by Prove circle theorems • Solve problems involving angles in circles
Revision **Half Term Assessment**			

Year 11	Big Questions (Foundation)	Small Questions Foundation	Big Questions (Higher)	Small Questions Higher
Autumn 2	Recap area and volume Circles, cylinders, cones and spheres (10 lessons)	• Recap basic volume and area work from year 10 • Area of a circle • Circumference of a circle • Area of parts of circles • Perimeter of parts of circles • Area of compound shapes involving circles • Perimeter of compound shapes involving circles • Volume and surface area of a cylinder • Volume and surface area of cones and spheres	Circle geometry (5 lessons)	• Plot graphs of circles • Equation of a circle • Equation of the tangent to a circle • Solve problems involving equations of a circle and linear graphs
	Fractions and reciprocals (6 lessons)	• Recap calculating with fractions • Add and subtract mixed numbers • Multiply and divide mixed numbers • Reciprocals	Changing the subject of formulae (more complex), algebraic fractions solving equations arising from algebraic fractions,	• Change the subject of more complex equations (where subject occurs on both sides) • Simplify algebraic equations • Add and subtract algebraic equations • Multiply and divide algebraic equations • Solve algebraic equations • Simplify surds • Rationalise surds • Algebraic proof • Use function notation • Compound functions • Inverse Functions

		rationalising surds, proof (10 lessons)	
		Mini Test	
Indices and standard form (6 lessons)	• Recap index laws • Convert large and small numbers into standard form • Convert numbers from standard form • Multiply and divide numbers in standard form • Add and subtract numbers in standard form	Vectors and geometric proof (10 lessons)	• Use vector notation • Draw vectors • Use vectors to explain simple paths • Add and subtract vectors • Multiply vectors by a scalar • Parallel vectors (prove) • Colinear vectors (prove) • Solve geometric problems involving vectors
		Mini Test	
Revision for mocks		Revision for mocks	•
		Mock Exams	

Year 11	Big Questions Foundation	Small Questions Foundation	Big Questions Higher	Small Questions Higher
Spring 1	Vectors (7 lessons)	• Understand column notation for vectors • Draw column vectors • Calculate with column vectors • Identify if two column vectors are parallel	Graphs of Trigonometric functions (6 lessons)	• Know exact values for sine, cosine and tangent • Recognise and sketch trig graphs • Use trig graphs to solve equations
	MINI TEST			
		•	Direct and indirect proportion (8 lessons)	• Solve problems involving direct and indirect proportion • Formal method for direct proportion • Formal method for indirect proportion • Exponential growth and decay questions
		•		
	Mini Test			
		•		•

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REVISION
HALF TERM ASSESSMENT

Year 11	Big Questions (Foundation)	Small Questions Foundation	Big Questions (Higher)	Small Questions Higher
Spring 2		•		•
	Mini Test			
		•		•
		•		
	Mini Test			

		•		•
	•			•
REVISION				
HALF TERM ASSESSMENT				

Year 11	Big Questions (Foundation)	Small Questions Foundation	Big Questions (Higher)	Small Questions Higher
Summer 1		•		•
		•		•
	Mini Test			
		•		•
		•		•
	REVISION			
	HALF TERM ASSESSMENT			

Year 11	Big Questions Foundation	Small Questions Foundation	Big Questions Higher	Small Questions Higher
		•		•
	Mini Test			
Summer 2		•		•
	)	•		•

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	MINI TEST			
	Revision/Catch Up	Chance to catch up or revise any topics missed or rushed.		