



2021-22

YEAR 10 Foundation tier.		
HT1	HT3	HT5
<p>Basic number. Factors and multiples. Indices. Standard index form. Basic algebra and linear equations.</p>	<p>Percentages. Statistical measures and representing data. Scatter Graphs. Coordinates and linear graphs.</p>	<p>2D representations of 3D shapes. Volume and surface area. Ratio and proportion.</p>
HT2	HT4	HT6
<p>Angle properties and polygons. Perimeter and area. Circumference and area of circles. Fractions. Sequences.</p>	<p>Real-life graphs. Decimals. Rounding and approximation. Scale diagrams and bearings.</p>	<p>Probability. Transformations. Pythagoras' Theorem.</p>

YEAR 10 Higher tier.		
HT1	HT3	HT5
<p>Basic number, factors and multiples. Indices. Standard index form. Surds. Angle properties and polygons.</p>	<p>Ratio and proportion. Area and perimeter. Circumference and area of circles. Statistical measures and representing data.</p>	<p>Calculating with percentages. 2D representations of 3D shapes. Volume and surface area. Measures.</p>
HT2	HT4	HT6
<p>Scale diagrams and bearings. Construction and loci.</p>	<p>Scatter graphs. Real-life graphs.</p>	<p>Rounding and approximation. Sequences.</p>



Solving linear and quadratic equations. Fractions and decimals.	Coordinates and linear graphs. Gradient and rates of change.	Algebraic fractions. Transformations.
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YEAR 11 Foundation tier.		
HT1	HT3	HT5
Direct and inverse Proportion. Rearranging formulae and identities. Inequalities. Sketching graphs.	Simultaneous equations. Quadratics. Trigonometry. Vectors.	Revision, consolidation and exam preparation.
HT2	HT4	HT6
Growth and decay. Measures. Congruence and similarity. Construction and loci.	Revision, consolidation and exam preparation.	<u>GCSE examinations.</u>

YEAR 11 Higher tier.		
HT1	HT3	HT5
Direct and inverse proportion. Probability. Pythagoras and trigonometry. Congruence and similarity.	Vectors. Further equations of graphs. Sketching graphs. Transforming functions.	Revision, consolidation and exam preparation.
HT2	HT4	HT6
Simultaneous equations. Inequalities.	Equation of a circle. Numerical methods.	<u>GCSE examinations.</u>



**DUKE'S SECONDARY SCHOOL,
FACULTY OF MATHEMATICS.**

LONG TERM CURRICULUM PLAN

Circle theorems. Sine and cosine rules.	Growth and decay. Pre-calculus and area under a curve.	
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