

SJBC Curriculum Termly Plan: Y10 Maths

Term	Topic(s) and links to other subjects	Core Knowledge	Core Vocabulary	Assessment	Resources
Autumn 1		Students will revise and develop their understanding of: <ul style="list-style-type: none"> • Simultaneous Equations • Functions • Surds • Proportion • Graphs and their equations • Cumulative Frequency graphs and box plots • Probability 	<ul style="list-style-type: none"> ➤ Rational ➤ Irrational ➤ Rationalised denominator ➤ Reciprocal ➤ Asymptote ➤ Parabola ➤ Roots ➤ Turning point ➤ Stationary point ➤ Maximum point ➤ Minimum point ➤ Y-intercept ➤ Strata ➤ Stratified sample ➤ Upper quartile ➤ Lower quartile ➤ Interquartile range ➤ Frequency density ➤ Constant of proportionality 	Common topics test x 3	<u>Core resources:</u> Sparx Mathsgenie.co.uk Youtube www.examq.co.uk
Autumn 2		Students will revise and develop their understanding of: <ul style="list-style-type: none"> • Trigonometry and Pythagoras' Theorem (including 3D) • Rearranging equations • Histograms • Recurring Decimals to Fractions • Circle theorems • Similarity 	<ul style="list-style-type: none"> ➤ Hypotenuse ➤ Adjacent ➤ Theta ➤ Variable ➤ Factorise ➤ Term ➤ HCF ➤ Sine ➤ Cosine ➤ Tangent 	Common topics test x 3	<u>Core resources:</u> Sparx Mathsgenie.co.uk Youtube

			<ul style="list-style-type: none"> ➤ Angle of depression ➤ Angle of elevation ➤ Resultant vector ➤ Congruent ➤ Similar ➤ Bearing 		www.examq.co.uk
Spring 1		<p>Students will revise and develop their understanding of:</p> <ul style="list-style-type: none"> • Algebraic fractions • Sequences • Error intervals and bounds • Iteration • Product rule for Counting • Scatter Graphs 	<ul style="list-style-type: none"> ➤ Arithmetic ➤ Fibonacci ➤ Geometric ➤ Trend ➤ Bivariate data ➤ Correlation ➤ Interpolation ➤ Extrapolation ➤ Outliers 	Common topics test x 3	<p>Core resources:</p> <p>Sparx</p> <p>Mathsgenie.co.uk</p> <p>Youtube</p> <p>www.examq.co.uk</p>
Spring 2		<p>Students will revise and develop their understanding of:</p> <ul style="list-style-type: none"> • Transformations • Transforming graphs • Vectors • Algebraic Proof • Area under a curve • Volume and surface area • Indices 	<ul style="list-style-type: none"> ➤ Invariant ➤ Consecutive integers ➤ Statement of proof ➤ Hemisphere ➤ Arc ➤ Sector ➤ Initial velocity ➤ Acceleration ➤ Deceleration ➤ Velocity ➤ Magnitude ➤ Collinear 	Common topics test x 3	<p>Core resources:</p> <p>Sparx</p> <p>Mathsgenie.co.uk</p> <p>Youtube</p> <p>www.examq.co.uk</p>
Summer 1		Revision and GCSE Exams			
Summer 2		Revision and GCSE Exams			