

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: • Simultaneous Equations • Functions • Surds • Proportion • Graphs and their equations • Cumulative Frequency graphs and box plots • Probability	➤ 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: • Trigonometry and Pythagoras' Theorem (including 3D) • Rearranging equations • Histograms • Recurring Decimals to Fractions • Circle theorems • Similarity	➤ Hypotenuse ➤ Adjacent ➤ Theta ➤ Variable ➤ Factorise ➤ Term ➤ HCF ➤ Sine ➤ Cosine ➤ Tangent	Common topics test x 3	<u>Core resources:</u> Sparx Mathsgenie.co.uk Youtube

			➤ Angle of depression ➤ Angle of elevation ➤ Resultant vector ➤ Congruent ➤ Similar ➤ Bearing		www.examq.co.uk
Spring 1		Students will revise and develop their understanding of: • Algebraic fractions • Sequences • Error intervals and bounds • Iteration • Product rule for Counting • Scatter Graphs	➤ Arithmetic ➤ Fibonacci ➤ Geometric ➤ Trend ➤ Bivariate data ➤ Correlation ➤ Interpolation ➤ Extrapolation ➤ Outliers	Common topics test x 3	<u>Core resources:</u> Sparx Mathsgenie.co.uk Youtube www.examq.co.uk
Spring 2		Students will revise and develop their understanding of: • Transformations • Transforming graphs • Vectors • Algebraic Proof • Area under a curve • Volume and surface area • Indices	➤ Invariant ➤ Consecutive integers ➤ Statement of proof ➤ Hemisphere ➤ Arc ➤ Sector ➤ Initial velocity ➤ Acceleration ➤ Deceleration ➤ Velocity ➤ Magnitude ➤ Collinear	Common topics test x 3	<u>Core resources:</u> Sparx Mathsgenie.co.uk Youtube www.examq.co.uk
Summer 1		Revision and GCSE Exams			
Summer 2		Revision and GCSE Exams			