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Progression to next stage of learning:  
Post 16



TREVIGLAS  
ACADEMY

### Maths Topic Roadmap

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Dependent and independent events, tree diagrams, median interval and modal group of grouped data, pooled mean, time series graphs, set notation.

Compass constructions, locus, Pythagoras, trigonometry, translation vectors, centre of enlargement.

Special quadrilateral angles, alternate and co-interior angles, circle sectors and segments, cylinder pyramid and cone surface area and volume.

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Mutually exclusive, sample space diagrams. AND OR probability, frequency diagrams, scatter graphs, pie charts, mean of tabulated data, Venn diagrams.

Truncation, error intervals, use prime index form, recurring decimals, operate with index form and standard index form.

Percentage change, exponential growth, factorise expressions, expansion to a quadratic, change the subject, Fibonacci sequence.

Linear and quadratic graphs, midpoints, 1/2/3D scale factors, compare proportions, compound measures.

Scale drawing, bearings, exact trigonometric values, transformation descriptions.

Polygon angles, corresponding angles, surface area, prism volume.

Line properties, gradient, intercept, share an amount in a proportion, direct and inverse proportion, speed.

Operations with fractions, bracket expansions, solving equations and inequalities.

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Similarity, congruence, scale, enlargement, symmetry, translation.

Possible outcomes, equally likely, chance, averages range charts.

Rounding, accuracy, estimation, common factors and multiples, index form, standard form, decimal numeracy, operations with negative numbers.

Angles, tessellation, nets, perimeter, area, volume.

Co-ordinates, line equations, fractions, ratio, proportion.

Fractions, decimals, percentages, sequences, expressions, equations.

Number properties, powers of 10, numeracy, order of operations, negatives.

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**Statistics:**  
Probability and Data.

**Shape:**  
Scale and Transformations.

**Geometry:**  
Angles and Dimensions

**Relations:**  
Graphs and Ratio.

**Generalising:**  
Proportion and Algebra.

**Number:**  
Place value and Operations.