

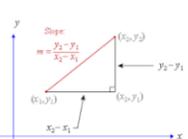
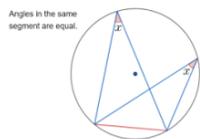
# Mathematics Learning Journey



Level 2 or 3  
Apprenticeships

A Level Further Mathematics  
A Level Mathematics  
AS Further Mathematics  
Core Mathematics

REVISION OF TOPICS USING EXAM PAPERS AND OTHER RESOURCES



Changing the subject of the formulae, proof. Algebraic fractions, solving equations arising from algebraic fractions, rationalising surds.

Reciprocal and exponential graphs; gradient and area under graphs

Direct and inverse proportion

FEBRUARY EXAM SERIES

Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics.

Circle theorems, circle geometry.

Vectors and geometric proof.

R and P

Further trigonometry.

Geometry and Measure

Algebra

Geometry and Measure

NOVEMBER EXAM SERIES

Algebra

Geometry and Measure

Algebra

YEAR 11

END OF YEAR 10 EXAM SERIES

Geometry and Measure

Statistics

Geometry and Measure

Probability

Algebra

Number

Algebra

Geometry and Measure

Algebra

Number

Higher/Foundation

YEAR 10

Sets 1 and 2/Middle sets

Single and combined events, two way tables, Venn diagrams

Sequences

Number

Geometry and Measure

R and P Probability

Algebra

Geometry and Measure

Number

Algebra

Real-life graphs, straight line graphs,  $y=mx+c$ . Plotting quadratics and cubics.

Tables, charts and graphs, pie charts, scatter diagrams, averages and sampling

Tables, charts and graphs, pie charts, scatter diagrams, averages and sampling

Transformations review and extend. Perimeter, area and volume, circles.

Probability review

Fractions, decimals and percentages

Setting up, rearranging, solving a variety of equations.

Checking calculations and rounding. Indices, roots reciprocals and hierarchy of operations. Factors, multiples, primes, standard form and surds,

Linear  $y=mx+c$  and real life graphs

Types of number, Indices and standard form.

Sequences. Algebra Recap. Equations and inequalities. Graphs. Quadratic equations. Simultaneous equations.

Types of number, Indices and standard form.

Types of number, Indices and standard form.

Fractions, decimals and percentages

Probability review

Transformations review and extend. Perimeter, area and volume, circles.

Tables, charts and graphs, pie charts, scatter diagrams, averages and sampling

Tables, charts and graphs, pie charts, scatter diagrams, averages and sampling

Single and combined events, two way tables, Venn diagrams

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R and P Probability

Algebra

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