



Higher Maths

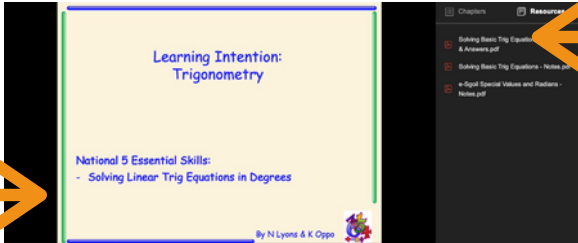
Revision Support



This interactive document has been created to provide you with easy access to a wide range of revision materials to support you succeeding in the Higher Maths course.

You can access recorded video lessons with additional revision resources by clicking on the purple boxes of this document. Each video lesson contains resources including summary notes, key area questions, quizzes and BBC Bitesize links.

Recorded Video Lesson →



← **Summary Note**
Key Area Questions and Answers
Online Quiz
BBC Bitesize Link

You can also access a weekly online study support session from eSgoil by registering using the following link:

Live Study Support



Tuesday @ 5pm or Wednesday @ 6pm

[Click to register!](#)



With any revision programme, it is important to start early and give yourself plenty of time to work through the course. This pack should complement the work provided by your teacher, and remember to ask them for help with any aspect of the course you are finding challenging - they are always there to help!

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Higher Maths



Algebraic and Trigonometric Skills

Click on the key areas below to access revision resources!

Polynomials & Quadratics

[Sketching Quadratics](#)

[Solving Quadratic Inequalities](#)

[The Discriminant](#)

[Completing the Square](#)

[The Equation of a Parabola](#)

[Intersection of Lines and Parabolas](#)

[Polynomials and Synthetic Division](#)

[Finding Unknown Coefficients](#)

[Finding the Intersection of Curves](#)

[Determining the Equation of a Curve](#)

Logarithms & Exponentials

[Evaluating Logs](#)

[Rules of Logs](#)

[Solving Log Equations](#)

[Special Number e](#)

[Experimental Data](#)

[Graphing and Logarithmic Axes](#)

Trigonometry

[Solving Basic Trig Equations](#)

[Solving Quadratic Trig Equations](#)

[Solving Trig Equations in Radians](#)

[Solving Trig Equations Using a Double Angle](#)

[Compound Angles Sine Rules](#)

[Compound Angles Cosine Rules](#)

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Algebraic and Trigonometric Skills

Click on the key areas below to access revision resources!

Wave Function

[Introduction to the Wave Function](#)

[Other Forms of the Wave Function](#)

[Multiple Angles](#)

[Maximum and Minimum Values](#)

[Solving Equations Using the Wave Function](#)

Geometric Skills

Click on the key areas below to access revision resources!

Vectors

Not being assessed in 2021/22

[Revision of Nat 5](#)

[Magnitude and Unit Vectors](#)

[Basis Vectors](#)

[The Zero Vector](#)

[Collinearity](#)

[Section Formula](#)

[Dividing a Line in a Given Ratio](#)

[Scalar Product with Angle](#)

[Scalar Product Component Form](#)

[Angle Between Two Vectors](#)

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Calculus Skills

Click on the key areas below to access revision resources!

Differentiation

[Introduction to Differentiation](#)

[Differentiating More Complex Expressions](#)

[Differentiating with Respect to Other Variables and Rates of Change](#)

[Equations of Tangents](#)

[Increasing and Decreasing Curves](#)

[Stationary Points](#)

[Horizontal Points of Inflection](#)

[Curve Sketching](#)

[Closed Intervals](#)

[Graphs of Derivatives](#)

[Differentiating \$\sin x\$ and \$\cos x\$](#)

[The Chain Rule](#)

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Calculus Skills

Click on the key areas below to access revision resources!

Integration

[Introduction to Integration](#)

[Preparing to Integrate](#)

[Differential Equations](#)

[Definite Integrals](#)

[Area Under a Curve Part 1](#)

[Area Under a Curve Part 2](#)

[Area Between Two Curves](#)

[Integrating \$\sin x\$ and \$\cos x\$](#)

[The Chain Rule Integration](#)

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Algebraic and Geometric Skills

Click on the key areas below to access revision resources!

Rectilinear Shapes

[Equation of a Straight Line](#)

[Special Lines](#)
([Horizontal](#),
[Vertical](#),[Parallel](#)).

[Gradient](#)
[m=tanx](#)

[Perpendicular Lines](#)

[Altitude](#)

[Perpendicular Bisector](#)

[Median](#)

[Intersecting Lines](#)

[Collinearity](#)

Circles

[Circle with Centre the Origin](#)

[Circle with Centre \(a,b\)](#)

[The General Equation of a Circle](#)

[Intersection of a Line and a Circle](#)

[Equation of a Tangent to a Circle](#)

[Intersection of Circles](#)

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Algebraic and Geometric Skills

Click on the key areas below to access revision resources!

Functions and Graphs

[Translations](#)

[Reflections](#)

[Scaling](#)

[Composite
Functions](#)

[Inverse
Functions](#)

[Exp Log and
Trig Graphs](#)

Recurrence Relations

Not being assessed in 2021/22

[Recurrence Relations
Introduction](#)

[Finding the Limit of a
Recurrence Relation](#)

[Finding the Value of a
and b](#)

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