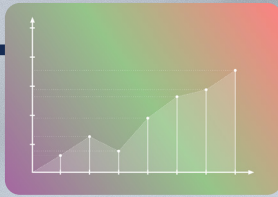


Year
12

Maths - A Level



Statistics
Data probability, Binomial distribution and Hypothesis testing



ANALYSING

Students will use their analysing skills to deduce, hypothesise, reason and seek supporting evidence.

Large data set investigation

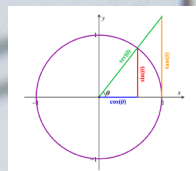


To able to recognise rules and bend them to create valid but new ones.

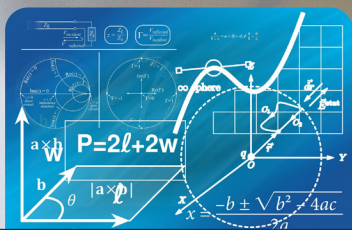
$$\mathbf{r} = \frac{1}{2} \mathbf{a}t^2 + \mathbf{v}_0t + \mathbf{r}_0$$

Mechanics - Vectors, Kinematics, Forces and Laws of motion, and Variable acceleration

$$\vec{A} \cdot \vec{B} \times \vec{C} = \vec{A} \times \vec{B} \cdot \vec{C}$$



Pure
Binomial expansion, Trigonometry, graphs and transformation

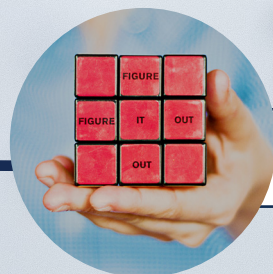


Calculus
Differentiation and Integration



LINKING

Connection finding
The ability to use connections from past experiences to seek possible generalisations.



Problem solving and proof



REALISING

Automaticity – the ability to use some skills with such ease as they no longer require active thinking.

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Ambition Confidence Success
Everyone Every Lesson Every Opportunity

Maths - A Level

Year
13



Statistics

Further probability and Hypothesis testing involving the Normal distribution

Mechanics

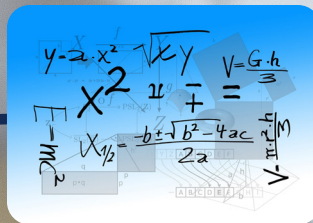
Forces and motions, moments of forces, Friction, Kinematics, Projectiles and vectors



ANALYSING

Complex and multi-step problem solving

The ability to break down a task, decide on a suitable approach, and then act.



Pure

Further Algebra, Differentiation (including implicit) and Integration

Functions, sequences and proof



LINKING

Abstraction

The ability to move from concrete to abstract very quickly.



Numerical methods, Trigonometry functions and identities



Revise for end of year exams!

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A Level exams:

At the end of Year 13, students will sit 3 exam papers, each 2 hours long and worth 100 marks:

1. Pure
2. Pure and Mechanics
3. Pure and Statistics