

Your Learning Route Through Maths KS5

STATISTICS

PURE

Mechanics



Exam revision
Vectors

Feb - April

Pure & Applied Tests
PPE

Numerical methods

Application of forces

Further Kinematics

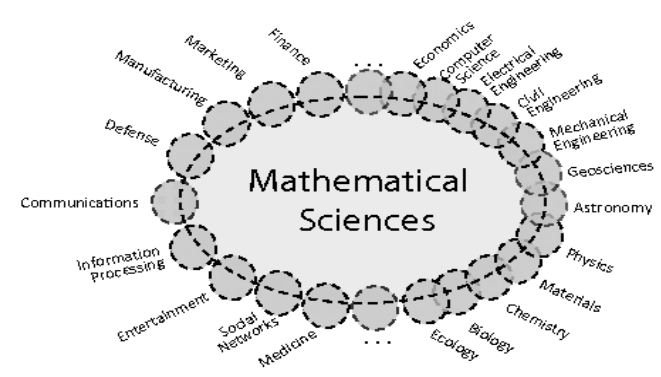
Differentiation

Pure & Applied Tests

Jan - Feb

Projectiles

Forces and Friction



Pure & Applied Tests

Parametric Equations

Moments

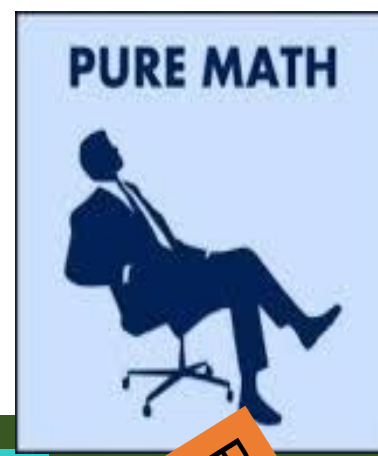
Normal distribution consolidation

October to December

Trigonometry and modelling

Normal distribution

Conditional probability



Radians

3) Trigonometric functions

Revision of year 13 Pure topics covered in year 12

Revision & consolidation of year 13 Stats topics covered in year 12

Pure & Applied Tests

Year 13

Year 13 Content
Regression, correlation and hypothesis testing

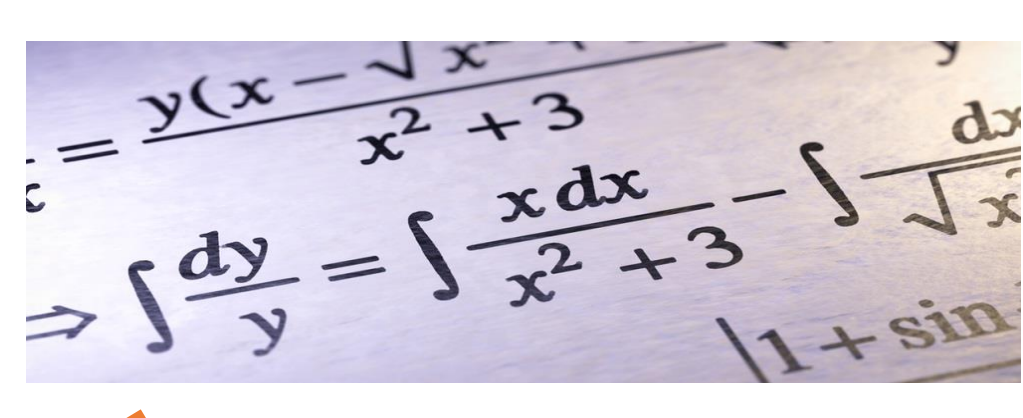
- Year 13 Topics**
- 1) Algebraic methods
 - 2) Functions & transformation
 - 3) Sequences & series
 - 4) binomial

Revision of Year 12 Mech topics

Hypothesis testing & Revision of Year 12 content

Exponential and logs

May - July



Variable acceleration

Statistical distribution

Applications of differentiation

Pure & Applied Tests

Feb - April

Integration and applications

Hypothesis testing

Differentiation

Vectors

Forces and Motion

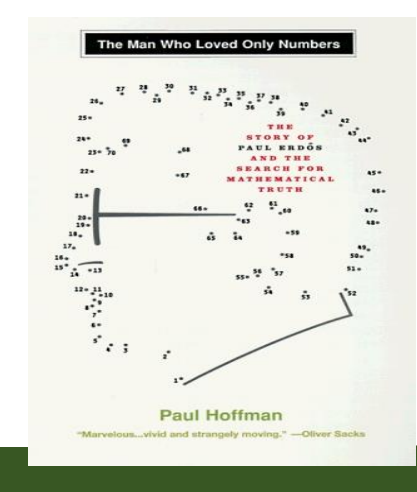
Jan - Feb

Trig identities & equations

Trig (sin & cos rules)

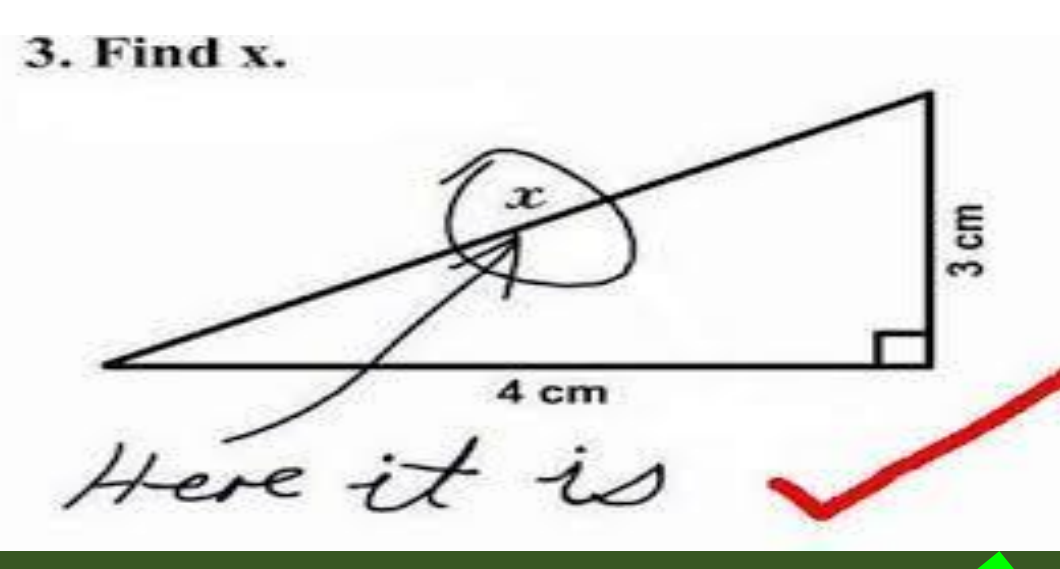
Binomial expansion

Algebraic methods



Circles consolidation

Kinematics (SUVAT)



Modelling & Vocabulary of mechanics

Pure Maths Test (October)

Correlation and regression

Probability

October to December

Coordinate Geometry (Lines & circles)

Representation of data: box plots, cumulative frequency, histograms, freq polygons



GCSE Check (Retest)

Algebraic and functions: surds, indices, expanding, factorising

September to October

Year 12

Graphs and transformations

Equations and Inequalities

Quadratic functions

GCSE Skills check

Measures of location & spread

Data collection, sampling & introduction to LDS