

BINOMIAL

EXPANSION

Pascal's triangle Factorial notation



EPCHS MATHEMATICS DEPARTMENT:











HYPOTHESIS TESTING

Spring

Term

Critical values

One & two tailed tests

STATISTICAL

Mutually exclusive & **DISTRIBUTIONS**

PROBABILITY

CORRELATION

REPRESENTATIONS

OF DATA Outliers Box plots Cumulative frequency Summer Term

MECHANICS

EXPONENTIALS &

LOGARITHMS

Natural logs

Log equations

MEASURES OF LOCATION & SPREAD

Central tendency Variance

STATISTICS

Probability & binomial

Cumulative probabilities

TRIGONOMETRIC **IDENTITIES & EQUATIONS**

Exact trig ratios Trig identities

VECTORS Magnitude & direction Position vectors Geometric problems Modelling

DIFFERENTIATION Gradient Derivatives

Modelling

INTEGRATION Integrals Functions Area under curves

Functions Modelling **DATA COLLECTION** Population & sampling

Large data set

ENRICHMENT

TOP TIPS FOR PARENTS

Calculator fx-85-GT-CW

Use of exam style questions Ensure pupils have a Casio

Purchase the Collins Edexcel

AS-Level revision workbook

- Examsolutions.net
- SparxMaths.co.uk
- Crashmaths.com
- Naikermaths.com
- UKMT challenge
- Edexcel AS past papers

PURE MATHEMATICS

FUNCTIONS & EQUATIONS

Equation of circle Points of intersection Tangent & chord properties y = mx + c Parallel Lines

Equation of lines Length & Area Modelling **TRANSFORMATIONS Cubics Quartics**

Reciprocals Points of intersection **EQUATIONS &**

Simultaneous Equations Solving graphically Translating & stretching Linear & quadratic inequalities Inequality graphs

QUADRATICS Solving Functions

Graphs Modelling ALGEBRAIC **EXPRESSIONS** Indices Surds Expanding & Factorising Autumn Term

Midpoints

STRAIGHT LINE GRAPHS Perpendicular lines

GRAPHS &

INEQUALITIES