



# **EPCHS MATHEMATICS DEPARTMENT:**

## **LEARNING JOURNEY YEAR 12**









### **PROBABILITY**

Venn & tree diagrams Mutually exclusive &

CORRELATION

### REPRESENTATIONS OF DATA

Outliers Box plots Cumulative frequency

## Summer **Term**

**STATISTICS** 

**STATISTICAL** 

DISTRIBUTIONS

Probability & binomial

Cumulative probabilities

**MECHANICS** 

**MEASURES OF** LOCATION & SPREAD

Central tendency

## **TOP TIPS FOR PARENTS**

- Use of exam style questions
- Ensure pupils have a Casio Calculator fx-991EX Classwiz
- Purchase the Collins Edexce AS-Level revision workbook

**Spring Term** 

One & two tailed tests

#### TRIGONOMETRIC **IDENTITIES & EQUATIONS**

**Exact trig ratios** Trig identities

## DIFFERENTIATION

Geometric problems

Gradient Derivatives Stationary points **VECTORS** Modelling Magnitude & direction Position vectors

INTEGRATION Integrals Functions Area under curves

#### **EXPONENTIALS &** LOGARITHMS Functions Modelling

Natural logs Log equations DATA COLLECTION Population & sampling Types of data Large data se

#### **BINOMIAL EXPANSION**

Pascal's triangle Factorial notation

#### **FUNCTIONS & EQUATIONS**

Perpendicular bisectors Equation of circle Tangent & chord properties

## STRAIGHT LINE GRAPHS

y = mx + c Parallel Lines Equation of lines Length & Area Modelling

#### **GRAPHS & TRANSFORMATIONS**

PURE MATHEMATICS

**Cubics Quartics** Reciprocals Points of intersection Translating & stretching

### **EQUATIONS & INEQUALITIES**

Simultaneous Equations Solving graphically Linear & quadratic inequalities Inequality graphs

### **QUADRATICS**

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

## **ENRICHMENT**

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