



## **EPCHS MATHEMATICS DEPARTMENT:**

### **LEARNING JOURNEY YEAR 13**









#### NORMAL DISTRIBUTIONS

Probability & inverse Approximating a binomial distribution

### Summer **Term**

CONDITIONAL PROBABILITY

### **STATISTICS**

**MECHANICS** 

### **Spring Term**

### **NUMERICAL MFTHODS**

Iteration Modelling

### INTEGRATION

Reverse chain rule By parts Modelling Trapezium rule

#### **VECTORS**

3D coordinates & vectors Geometric problems

#### REGRESSION, CORRELATION & HYPOTHESIS TESTING

**Exponential models** Hypothesis testing for zero correlation

### PURE MATHEMATICS

### **PARAMETRIC EQUATIONS**

DIFFERENTIATION

Product rule

Implicit

Using trig identitie

## TRIGONOMETRY & MODELLING

## **TRIGONOMETRIC**

### **RADIANS**

Arc length Area of sectors & segments Trigonometry equations

#### **BINOMIAL EXPANSION** Partial fractions

## SEQUENCES & SERIES

Recurrence relations Modelling

## **FUNCTIONS &**

**ALGEBRAIC METHODS** Algebraic fractions Partial fractions Algebraic division

**Autumn Term** 

# **ENRICHMENT**

**TOP TIPS FOR PARENTS** 

Use of exam style questions Ensure pupils have a Casio

Calculator fx- 991EX Classwiz Purchase the Collins Edexcel A-Level revision workbook

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