



EPCHS MATHEMATICS DEPARTMENT:

LEARNING JOURNEY YEAR 11









ENLARGEMENT & SIMILARITY

Scale Factors Enlargement Similar triangles

AREA & VOLUME

PERCENTAGES Fraction, decimal, percentages equivalence Percentage calculations Properties of shapes

SHAPES & TRANSFORMATIONS Exact trigonometric values

Symmetry Congruence Reflection Rotation Combined

TRIGONOMETRY

Right-angle trigonometry Trigonometric graphs Sine & cosine rules

FURTHER ALGEBRA SKILLS Formulae Inequalities

Summer Term

Autumn

Spring

GRAPHS & TABLES

Coordinates Linear graphs Quadratic graphs Special graphs Real-life tables & graphs

Units of measurement

Compound measures

DECIMALS

Place value Fraction to decimal conversion Calculating with decimals

FRACTIONS

Comparing fractions Calculating with fractions

TOP TIPS FOR PARENTS

- Use of Hegarty Maths
- Ensure pupils have a Calculator fx- 83 GT plus
- Ensure pupils have protractor and compass
- Purchase the Collins OCR GCSE revision workbook

Term

STATISTICS

Data collection

Averages & measures of spread Diagrams & charts

ENRICHMENT

- HegartyMaths.co.uk
- Corbettmaths.com
- **UKMT** challenge
- Mathsgenie.co.uk
- OCR past papers

Functions Linear equations Quadratic equations Simultaneous equations

Proportional reasoning Direct & reverse proportion Scale diagrams Ratio

ALGEBRA SKILLS Algebraic notation

Algebraic fractions

SEQUENCES Linear Geometric

Quadratic

Factors Multiples Primes Powers Roots & Surds

NUMBER Standard form

FUNCTIONS & EQUATIONS

MEASURES & ESTIMATION Rounding & approximation

RATIO & PROPORTION

Simplifying expressions **Expanding & factorising**

Term