



# **EPCHS MATHEMATICS DEPARTMENT:**

### **LEARNING JOURNEY YEAR 9**









**ENLARGEMENT & SIMILARITY** 

Scale Factors **Enlargement**  **AREA & VOLUME** 

**PERCENTAGES** 

Fraction, decimal,

percentages equivalence

Percentage calculations

Surface area

**SHAPES & TRANSFORMATIONS** 

Properties of shapes Symmetry Congruence Reflection Rotation Combined

TRIGONOMETRY **Pythagoras** 

> **FURTHER ALGEBRA SKILLS** Formulae Inequalities

Summer **Term** 

**Spring Term** 

**GRAPHS & TABLES** 

Coordinates Linear graphs Quadratic graphs

DECIMALS

Place value Fraction to decimal conversion Calculating with decimals

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
- Ensure home learning is done with maximum effort

Real-life tables & graphs

STATISTICS

Data collection Diagrams & charts

Averages & measures of spread

**FRACTIONS** 

# **ENRICHMENT**

- HegartyMaths.co.uk
- Corbettmaths.com
- UKMT challenge
- Maths4everyone.com

#### **FUNCTIONS & EQUATIONS**

Functions Linear equations Quadratic equations Simultaneous equations

### **MEASURES & ESTIMATION**

Units of measurement Rounding & approximation Compound measures

#### **RATIO & PROPORTION**

Proportional reasoning Direct & reverse proportion Scale diagrams Ratio

## **ALGEBRA SKILLS**

Algebraic notation Simplifying expressions Expanding and factorising

#### **SEQUENCES** Linear Geometric

Quadratic Special sequences

#### Factors Multiples Primes Powers Roots & Surds Standard form

**Autumn** NUMBER **Term**