



# Blue Coat Church of England Academy

**Year: 12/13**

**Subject: GCSE Mathematics Resit**

## **Overview**

This course is largely past paper based to focus on exam skills for pupils who have already completed their GCSE in maths but have not yet achieved a grade 4. The majority of pupils sit the Foundation tier exam in the Summer, with some pupils being entered for the November resit exams. All pupils have individual logins for the MathsWatch VLE site to assist with independent learning, homework and revision.

### Edexcel Foundation Tier Checklist (Grades 1 – 5)

Geometry and Measures	Algebra	Statistics	Ratio, Proportion and Rates of Change	Number	Probability
Arc lengths and sectors Derive triangle results Enlargements and negative SF Loci Pythagoras Similarity and Congruence Standard constructions Surface Area Trigonometric ratios Volume Alternate and corresponding angles Area of a circle Areas of composite shapes Areas of triangles, trapezia and parallelograms Bearings Circle terminology Circumference of a circle Congruent triangles Enlargements and fractional SF	Algebraic terminology Cubic and Reciprocal graphs Deduce quadratic roots algebraically Derive an equation Equation of a line Expand the product of two binomials Factorising quadratic expressions Fibonacci, quadratic and simple geometric sequences Graphical solution to equations Inequalities on number lines Linear equations Quadratic graphs Reciprocal real-life graphs Simplify indices Simplify surds Solve linear inequalities in one variable Writing formulae and expressions Changing the subject	Histograms with equal class widths Scatter graphs Comparing data using graphs Comparing Distributions Correlation Population Sampling Scatter Diagrams Time series Charts and Diagrams Pie Charts Types of data Vertical Line Charts	Compound Units Gradient & the rate of change Growth and decay Interpret Proportion Percentage change Problems with compound units Scale factors and similarity Simple Interest and Financial Maths Solve Proportion Problems Compare Fractions, Decimals and Percentages Compare lengths, area, volume Comparing quantities as a ratio Division of a quantity as a ratio Express one quantity as a % of another Percentage change Problems involving ratio Proportion and ratio	Calculating with fractions Error intervals Index Laws Limits of accuracy Adding and subtracting fractions Checking calculations Compound measures Converting metric units Estimation Fractions and percentages Fractions and ratio problems Interpret calculator displays LCM and HCF Multiples and factors Multiplying fractions Operations Order of operations Powers Rounding Standard Form Terminating decimals and fractions Decimals	Probability of dependent events Probability of independent events Mutually exclusive sum Relative Frequency Tables and Grids Theoretical Probability Unbiased Samples Venn Diagrams Frequency Trees Probability of equally likely outcomes

<p>Perimeter of 2D shapes Plans and elevations Polygons Solve geometrical problems Vector arithmetic Volume of prisms 3-D Shapes Congruent and similar shapes Geometrical terminology and diagrams Measuring lines and angles Properties of quadrilaterals Properties of triangles Translations and vectors Using standard units</p>	<p>Collecting like terms Expressions Factorise single bracket Finding the equation of a line Graphs of linear functions Graphs of quadratic functions Linear equations one unknown Multiplying single brackets Non-standard real life graphs nth term of a linear sequence Number machines Substitution Using "<math>y = mx + c</math>" Coordinates in four quadrants Plotting straight line graphs Position to term rules Sequences of square, triangular and cube numbers Using Formulae Sequences and Rules</p>		<p>Ratio and fractions Ratio Sharing Convert standard units Express one quantity as a fraction of another Use ratio notation Use scale factors, diagrams and maps</p>	<p>Listing outcomes Prime numbers Using standard units Add and Subtract integers Dividing integers Multiplying integers Ordering numbers Place value</p>	
--	--	--	---	--	--