



Wonder
Learning Partnership
Educate | Empower | Engage | Enrich



GCSE EXAMINATIONS

Paper 1: Non-calculator (33.3%)
Paper 2: Calculator (33.3%)
Paper 3: Calculator (33.3%)

Problem solving and contextual focus on all topics

Consolidation of previous content based on analysis of mock exams

Pre calculus and area under the curve (Higher)

Gradients and rate of change

Iteration (Higher)

Algebraic fractions (Higher)

Sine and Cosine Rule (Higher)

Further Equations and graphs

Direct and Inverse proportion

Circle Theorems (Higher)

Simultaneous Equations

Ratio and Fractions

Pythagoras and Trigonometry

Percentages and Interest calculations

Equation of a circle (Higher)

Angles and Bearings

Probability

Further Algebra (Higher)

Non-Calculator methods

Graphical Inequalities

Quadratic Sequences

Measures

Statistical Measures

Congruence and Similarity

Transformations

Probability review

Laws of indices

Surds

Solving quadratic equations

Pythagoras theorem and trigonometry

Ratio and proportion

Calculating with percentages

Calculations with standard form

Collecting and representing data/Histograms

Arc length and area of sectors

Conversion graphs

Properties of polygons

Rounding and bounds

Equations of linear graphs

Algebra review

Review numbers factors and multiples

Probability with tree diagrams

Ratio and proportion

Fractions, Decimals and Percentages

Bearings

Algebraic representation

Rates

Enlargement and Similarity

Volume and Surface area of pyramids, cones and spheres

Reasoning with number

Contextual maths and money

Transformations

Testing conjectures

Construction and Congruency

Applications of percentages

Geometrical reasoning and algebra

Pythagoras

Straight line graphs

Compare distributions using charts

Area of trapezia and circles

Equations and rearranging formulae

Appropriate averages

Line symmetry and reflection

Angles in polygons

Mean from frequency tables

Brackets, equations and inequalities

Indices

Standard index form

Working in the cartesian plane

Probability from Venn diagrams

Interpret sequences algebraically

Percentage increase and decrease

Error intervals, metric unit conversions area and volume

Multiplying and dividing algebraic fractions

Ratio and scale

Linear Sequences

Line symmetry and reflection

Calculations with angles

Multiplicative change

Sets and Probability

Number sense, mental maths

Developing geometric reasoning

Calculations with addition and subtraction

Prime numbers and proof

Negative numbers

Addition and subtraction of fractions

Fractions, decimals and percentages

Calculations with multiplication and division

Fractions and percentages of amounts

Multiplying and dividing fractions

Equality and Equivalence

Algebraic notation

Place value

YEAR 7

MATHS



LONGCROFT
—SCHOOL AND SIXTH FORM COLLEGE—