ONLINE MATH SUMMER SCHOOL

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GETTING READY FOR GOSE MATHEMATICS

Lesson 1: Number Systems and Calculations Review of operations with integers, fractions, decimals, and percentages Introduction to surds and indices Practice solving problems involving multiple number systems

Lesson 2: Algebraic Expressions and Equations Simplifying algebraic expressions Solving linear equations and inequalities Introduction to quadratic equations & factoring

Lesson 3: Geometry and Trigonometry
Properties of angles, triangles, and quadrilaterals
•Pythagoras' theorem and basic trigonometric
ratios

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COURSE OBJECTIVE:

The objective of this course is to prepare UK Year 9 students aged 13 to 14 for the upcoming GCSE Math curriculum by reinforcing key concepts from lower years and introducing essential topics they will encounter at GCSE level.

Lesson 4: Statistics and Probability Data representation using frequency tables, histograms, and scatter plots Measures of central tendency and spreaD.

Introduction to probability & probability calculations

Lesson 6: Functions and Graphs Understanding linear, quadratic, & exponential functions Plotting and interpreting graphs Lesson 5: Ratio, Proportion & Rates of Change Solving problems involving direct & inverse proportions

Calculating rates of change and percentages Application of ratios in real-life scenarios

Lesson 7: Real-life Applications of Mathematics Examining real-world problems and their mathematical solutions

Applying math to finance, geometry, and statistics Critical thinking exercises to analyze and solve practical scenarios



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Lesson 8: Question and Answer Session/Exam Preparation Information on the structure of exams and the different exam papers A chance to view and discuss past papers and analyse the various styles of exam questions and good exam answering techniques. ALL STUDENTS TO RECEIVE AN CERTIFICATE OF COMPLETION AT THE END OF THE COURSE