By Mathico School of Mathematics
https://summer.mathi.co/

Preparation for the next academic year Grades 1-8

This course is designed to help the students recap the material of the previous academic year with the specific focus on areas where students may need a review. Students will study the next academic year curriculum's highlights and more depending on the length of the course chosen. It will lay the proper base for a smooth transition to the next grade.

COURSE TOPICS

Grade 2: Place Value, Addition and subtraction within 100 and 1000, Measurement, data, and geometry.

Grade 3: Intro to multiplication, 1-digit multiplication, Addition, subtraction and estimation, Intro to division, Understand fractions, Equivalent fractions and comparing fractions, More with multiplication and division, Arithmetic patterns and problem-solving, Geometry - Quadrilaterals, Area, Perimeter, Time, Measurement, Statistics.

Grade 4: Place value, Addition, subtraction, and estimation, Multiply by 2-digit numbers, Division, Factors, multiples, and patterns, Equivalent fractions and comparing fractions, Add and subtract fractions, Multiply fractions, Understand decimals, Plane figures, Measuring angles, Area and perimeter, Units of measurement.

Grade 5: Decimal place value, Add decimals, Subtract decimals, Add and subtract fractions, Multi-digit multiplication and division, Multiply fractions, Divide fractions, Multiply decimals, Divide decimals , Powers of ten, Volume, Coordinate plane, Algebraic thinking, Converting units of measure, Line plots, Properties of shapes.

Grade 6: Ratios, rates, & percentages, Arithmetic operations, Negative numbers, Properties of numbers, Variables & expressions, Equations & inequalities introduction, Geometry, Data and statistics.

Grade 7: Negative numbers: addition and subtraction, Negative numbers: multiplication and division, Fractions, decimals, & percentages, Rates & proportional relationships, Expressions, equations, & inequalities, Geometry, Statistics and probability.

Grade 8: Numbers and operations, Solving equations with one unknown, Linear equations and functions, Systems of equations, Geometry, Geometric transformations, Data and modeling.