

****Study Plan: 9th Mathematics****

****Total Time:**** 20 hours over 1 day

****Day 1****

****Task 1: Number Systems**** (3 hours)

- * Review place value and operations in different number systems (decimal, binary, octal, hexadecimal)
- * Practice converting numbers between different bases

****Task 2: Algebra**** (4 hours)

- * Solve linear equations and inequalities
- * Perform operations on algebraic expressions
- * Factor polynomials

****Task 3: Geometry**** (5 hours)

- * Understand basic geometric shapes and their properties (triangles, quadrilaterals, circles)
- * Apply the Pythagorean theorem and special right triangle relationships
- * Construct geometric figures using compass and straightedge

****Task 4: Measurement**** (3 hours)

- * Review units of measurement for length, area, volume, and mass
- * Convert between different units of measurement
- * Solve problems involving measurement

****Task 5: Data Analysis**** (2 hours)

- * Understand basic statistical concepts (mean, median, mode, range)
- * Collect and organize data
- * Create and interpret graphs (bar graphs, line graphs)

****Task 6: Review and Assessment**** (3 hours)

- * Review all covered topics
- * Practice solving problems and answering questions
- * Take a mock assessment to identify areas for improvement