

# Mathematics Course Outline (Junior Secondary School Level)

This outline is designed for Junior Secondary School students (JSS1–JSS3). It covers foundational mathematical concepts that build problem-solving, logical reasoning, and preparation for senior secondary mathematics.

Level	Topics Covered
JSS1	<ol style="list-style-type: none"><li>1. Whole Numbers and Place Value</li><li>2. Basic Operations (Addition, Subtraction, Multiplication, Division)</li><li>3. Factors and Multiples</li><li>4. Fractions</li><li>5. Decimals</li><li>6. Percentages (Introduction)</li><li>7. Simple Geometry (Lines, Angles, Shapes)</li><li>8. Perimeter and Area of Basic Shapes</li><li>9. Simple Graphs</li><li>10. Introduction to Algebra</li></ol>
JSS2	<ol style="list-style-type: none"><li>1. Revision of Fractions, Decimals and Percentages</li><li>2. Ratio and Proportion</li><li>3. Directed Numbers (Positive and Negative Numbers)</li><li>4. Algebraic Expressions</li><li>5. Simple Equations</li><li>6. Angles and Polygons</li><li>7. Area and Volume</li><li>8. Statistics (Mean, Median, Mode)</li><li>9. Probability (Basic Concepts)</li><li>10. Linear Graphs</li></ol>
JSS3	<ol style="list-style-type: none"><li>1. Sets and Venn Diagrams</li><li>2. Indices (Introduction)</li><li>3. Algebraic Equations and Word Problems</li><li>4. Simultaneous Equations</li><li>5. Geometry (Triangles, Circles)</li><li>6. Trigonometry (Basic Ratios)</li><li>7. Surface Area and Volume of Solids</li><li>8. Transformation Geometry</li><li>9. Statistics and Data Representation</li><li>10. Preparation for External Examinations</li></ol>