

Math Syllabus Category 1 (Grades 3 – 4)**1) Numbers and Operations**

- Addition
- Subtraction
- Multiplication
- Division

2) Prime and Composite Numbers**3) Basic Measurement**

- Length
- Area
- Volume
- Mass
- Time

4) Introduction to Venn Diagrams**5) Geometry**

- Shapes
- Perimeter
- Area of Rectangles

6) Mathematical Patterns and Sequences**7) Bar Graphs and Data Representation****8) Simple Word Problems and Logical Reasoning**

Math Syllabus Category 2 (Grades 5 – 6)**1) Arithmetic with Decimals, Fractions, and Mixed Numbers****2) Factors, Multiples, LCM, and GCF****3) Introduction to Ratios and Proportions****4) Simple and Compound Interest Calculations****5) Basic Probability**

- Concept of Likelihood

6) Introduction to Symmetry and Reflection**7) Geometry**

- Angles: Acute, Obtuse, and Right

8) Volume of Cubes and Rectangular Prisms**9) Data Interpretation**

- Line Graphs
- Pie Charts

Math Syllabus Category 3 (Grades 7 – 8)**1) Advanced Arithmetic**

- Negative Numbers
- Integers

2) Algebraic Expressions and Equations**3) Simple Linear Graphs****4) Statistics**

- Mean
- Median
- Mode

5) Geometry of Triangles and Quadrilaterals**6) Volume and Surface Area**

- Cubes
- Cuboids

7) Introduction to Trigonometry

- Basic Ratios

8) Probability

- Simple Events
- Outcomes

9) Word Problems Involving Ratios, Percentages, and Proportions

Math Syllabus Category 4 (Grades 9 – 11)**1) Advanced Algebra**

- Quadratic Equations
- Functions

2) Polynomial Factorization**3) Coordinate Geometry**

- Equations of Lines
- Midpoint
- Distance

4) Trigonometric Applications

- Sine
- Cosine
- Tangent

5) 3D Geometry

- Spheres
- Cones
- Cylinders

6) Probability and Statistics

- Combinatorics
- Conditional Probability

7) Exponential and Logarithmic Functions**8) Optimization Problems****9) Growth and Decay Models****10) Vectors and Their Applications****11) Mathematics in Physics**

- Speed
- Distance
- Work

12) Geometry of Circles

- Arc Length
- Chords
- Sectors

