



- AI & Future Skills Integration

CLASS-5

Syllabus and Exam Pattern

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● SECTION A: NUMBER SYSTEM & OPERATIONS (30%)

1. Large Numbers

- Numbers up to 10,00,000
- Place value (Indian system)
- Number names and expanded form
- Comparing and ordering
- Rounding off

2. Addition & Subtraction

- Large number operations
- Estimation
- Multi-step word problems

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◆ SECTION B: MULTIPLICATION & DIVISION (20%)

1. Multiplication

- Multi-digit multiplication

- Properties of multiplication
- Application-based word problems

## 2. Division

- Long division
  - Division with remainder
  - Real-life problem solving
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## ● SECTION C: FRACTIONS & DECIMALS (15%)

### 1. Fractions

- Proper, improper, mixed fractions
- Like and unlike fractions
- Addition and subtraction
- Comparison

### 2. Decimals

- Place value (tenths, hundredths)
  - Addition and subtraction of decimals
  - Conversion between fractions and decimals (basic)
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## ● SECTION D: MEASUREMENT, AREA & VOLUME (10%)

### 1. Measurement

- Length, weight, capacity
- Unit conversions

### 2. Perimeter & Area

- Perimeter of simple shapes
- Area (basic understanding using grids)

### 3. Volume (Basic)

- Concept of space occupied
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## ◆ SECTION E: TIME, MONEY & DATA HANDLING (10%)

### 1. Time

- 12-hour and 24-hour format
- Duration-based problems

## 2. Money

- Operations involving money
- Real-life application

## 3. Data Handling

- Bar graphs
  - Interpretation and analysis
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## SECTION F: SMART LOGIC & AI AWARENESS (10%)

*(No special study required)*

### 1. Pattern Recognition

- Number and figure patterns
- Series completion

### 2. Logical Reasoning

- Multi-step problem solving
- Analytical thinking

### 3. Introduction to Smart Systems

- Basic understanding of AI in daily life
  - Decision-making based on patterns
  - Algorithmic thinking (step-based solutions)
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## SECTION G: VISUAL REASONING & HOTS (5%)

- Coding-decoding (basic)
  - Analogy (number/figure-based)
  - Puzzle-based questions
  - Series and pattern reasoning
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## Weightage Structure

Section	Area	Weightage
A	Number System & Operations	30%
B	Multiplication & Division	20%

Section	Area	Weightage
C	Fractions & Decimals	15%
D	Measurement, Area & Volume	10%
E	Time, Money & Data Handling	10%
F	Smart Logic & AI Awareness	10%
G	Visual Reasoning & HOTS	5%

Total = 100%

### EXAM PATTERN

- Mode: Online / Offline (MCQ Based)
- Total Questions: 50
- Total Marks: 50
- Duration: 50 Minutes

#### Question Distribution:

- Core NCERT Maths: 38 Questions
- Smart Logic & AI: 6 Questions
- Visual Reasoning & HOTS: 6 Questions

### Important Note

The syllabus is based on NCERT Class 5 Mathematics with a strong focus on application and higher-order thinking skills. The Smart Logic & AI Awareness section is designed to develop analytical and future-ready thinking without requiring any additional preparation.