



BLOOM PUBLIC SCHOOL
C-8 Vasant Kunj, New Delhi
Syllabus for the Session 2026-27

Class: VIII

Subject: MATHEMATICS

SYLLABUS SESSION 2026-27

| MONTH | CHAPTER (NCERT Text Book) | CONTENT | ACTIVITIES/PRACTICALS |
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| April | CH-1 A Square and A Cube (Part -I) | *Square of a number * Square root of a number by prime factorisation & division method *Cube of a number * Cube root of a number by prime factorisation. | Activity – file <u>Activity 1:</u> Understanding Squares of Numbers |
| | CH-2 Power Play (Part -I) | *Focuses on the concept of exponents and powers * Scientific Notation. | Activity – file <u>Activity 2:</u> Exploring Exponents |
| May | CH-4 Quadrilaterals (Part -I) | *Identify and classify different types of quadrilaterals based on their properties (sides, angles, diagonals) and apply angle sum property and special properties of parallelograms and other quadrilaterals to solve problems. | Activity – file <u>Activity 3:</u> Sum of Interior Angles of Quadrilateral |
| | CH-5 Number Play (Part -I) | *Early Counting Systems *The Hindu-Arabic Number System. *Importance of Place Value. *Creating Your Own Number System. | Activity – file <u>Activity 4:</u> Understanding Rational Numbers on Number Line |
| July | CH- 6 We Distribute, Yet things Multiply (Part -I) | *distributive property of multiplication over addition. *simplify expressions by distributing a factor across a sum. *Application in Simplification. | Activity – file <u>Activity 5:</u> Finding Square Roots Using Prime Factorization |
| August | CH- 7 Proportional Reasoning (Part -I) | Observing Similarity in Change. *Ratios *Problem Solving with Proportional Reasoning. | Activity – file <u>Activity 6:</u> Probability with Coins |
| | Ch- 3 Proportional Reasoning-2 | *To explore proportional relationships between | |

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| | (Part -II) | quantities, using the ratio notation to represent such relationships. When two or more related quantities change by the same factor, we call that relationship a proportional relationship. | |
| September | Revision For Midterm Examination. | | |
| October | CH- 1 Fractions in Disguise (Part -II) | *The concept of percentages and their connection with fractions and decimals. It also deals with real-life applications like profit and loss, discount, and basic interest calculations. | |
| | CH- 5 Tales by Dots and Lines. (Part -II) | *Explores geometric patterns formed using dots and lines, helping students understand shapes, designs, and their properties. It also introduces concepts of symmetry, patterns, and their applications in art and real-life designs. | Activity – file <u>Activity 7:</u> Area of Triangle by Paper Cutting |
| November | Ch- 2 The Boudhayan – Pythagoras Theorem (Part -II) | *The relation between the areas of a square and the square on its diagonal can be used to find a general relation between the hypotenuse and the other two sides of an isosceles right triangle. | Activity – file <u>Activity 8:</u> Pythagoras Theorem |
| | CH-4 Exploring Some Geometric Themes (Part -II). | * Geometric patterns, symmetry, and tessellations through creative exploration and activities. It helps students understand shapes, designs, and their applications in real-life and art. | Activity – file <u>Activity 9:</u> Visualizing Solid Shapes (Cube and Cuboid) |
| December | Ch- 6 Algebra Play (Part -II). | * Algebraic expressions and identities through patterns, games, and activities. It helps students understand how to form, simplify, and apply algebraic concepts in problem-solving. | Activity – file <u>Activity 10:</u> Area of Rectangle Verification |
| January | Ch- 7 Area (Part - II) | *To understand the area of a triangle, the area of any polygon that can be evaluated by breaking it into triangles. | |

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| | | Area of a parallelogram, Area of a rhombus and Area of a trapezium | |
| February | Revision for Final Examination. | | |
| March | Bridge course | | |

ASSESSMENT SYLLABUS

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| PERIODIC ASSESSMENT -1 | (Part -I) CH-1 A Square and A Cube CH-2 Power Play CH-4 Quadrilaterals | |
| PERIODIC ASSESSMENT -2 | (Part -II) CH- 1 Fractions in Disguise Ch- 2 The Boudhayan – Pythagoras Theorem | |
| MID TERM EXAM | (Part -I) CH-1 A Square and A Cube CH-2 Power Play CH-4 Quadrilaterals CH-5 Number Play CH- 6 We Distribute, Yet things Multiply CH- 7 Proportional reasoning. | |
| ANNUAL EXAM | (Part -I) CH-1 A Square and A Cube CH-2 Power Play CH-4 Quadrilaterals CH-5 Number Play CH- 6 We Distribute, Yet things Multiply CH- 7 Proportional reasoning. (Part -II) CH- 1 Fractions in Disguise Ch- 2 The Boudhayan – Pythagoras Theorem Ch- 3 Proportional Reasoning-2 CH-4 Exploring Some Geometric Themes CH- 5 Tales by Dots and Lines. Ch- 6 Algebra Play Ch- 7 Area | |

