

# AIR FORCE SCHOOL BAMRAULI

Annual Split-Up Plan: Mathematics Class X

Academic Session 2026-2027

| Month         | Chapters  | Competency-Based Activity   | Key Topics Covered  | Periods |
|---------------|---|---|---|---------|
| April         | 1. Real Numbers<br>2. Polynomials   | <b>Number System Chart:</b> <i>Classifying real numbers in real-world contexts.</i> | Fundamental Theorem of Arithmetic, Irrationality, Relationship between zeroes and coefficients. | 18      |
| May           | 3. Pair of Linear Equations in Two Variables<br>4. Quadratic Equations                            | <b>Cost Analysis:</b> <i>Comparing service providers using linear equations.</i>    | Substitution/ Elimination methods, Nature of roots, Quadratic formula applications.             | 22      |
| July          | 5. Arithmetic Progressions<br>6. Triangles  | <b>Thales Theorem:</b> <i>Verifying BPT using parallel lines on graph paper.</i>    | Sum of n terms, BPT Theorem, Similarity criteria.   | 26      |
| August        | 7. Coordinate Geometry<br>8. Introduction to Trigonometry<br>9. Some Applications of Trigonometry | <b>Clinometer Project:</b> <i>Measuring height using angles of elevation.</i>       | Section formula, Trig identities, Heights and Distances.  | 28      |
| September     | 10. Circles<br>11. Areas Related to Circles<br>12. Surface Areas and Volumes                      | <b>Design Challenge:</b> <i>Calculating material for complex trophy designs.</i>    | Tangents, Area of Sectors/Segments, Volumes of combined solids.                                 | 24      |
| Oct (to 10th) | 13. Statistics<br>14. Probability   | <b>Data Audit:</b> <i>Analyzing local temperature variations using statistics.</i>  | Mean/Median/Mode of grouped data, Theoretical probability.                                      | 10      |
| Oct 11 - Jan  | CONTINUOUS REVISION   | <b>Peer Review:</b> <i>Analyzing marking schemes to avoid common errors.</i>        | Chapter-wise revision, Previous Year Papers (PYQs), and Case-study practice sessions.           | Ongoing |

Syllabus Completion Deadline: **10th October 2026**

The period following October 10th is dedicated to comprehensive revision and practice.