

FOCUSSED TOPICS CHAPTERWISE FOR REVISION
MATHEMATICS
CLASS: IX

CHAPTER NAME	FOCUSSED TOPIC
1. REAL NUMBERS	1. Decimal expansions of Real numbers 2. Operations on real numbers 3. Rationalization of denominator 4. Laws of exponents
2. POLYNOMIALS	1. Classification of polynomials based on degree and terms 2. Zeroes of polynomial 3. Algebraic Identities
3.COORDINATE GEOMETRY	1. Cartesian system and related terminology 2. Plotting a point in Cartesian plane
4. LINEAR EQUATIONS IN TWO VARIABLES	1. Standard form of linear equation in two variables 2. Solution of linear equation in two variables 3. Plotting of graph of linear equation in two variables
6. LINES & ANGLES	1. Basic terms & Definitions 2. (Prove) If two lines intersect, vertically opposite angles are equal. 3. (Prove) The sum of the angles of a triangle is 180°.
7. TRIANGLES	1. Congruency criteria in triangles 2. (Prove) Angles opposite to equal sides of a triangle are equal and (motivate) its converse
8. QUADRILATERALS	1. Mid-point theorem (motivate)
10. CIRCLES	1. (Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse. 2. Explanation of all other theorems without proof 3. Cyclic Quadrilaterals
11. CONSTRUCTIONS	1. Construction of Perpendicular bisector & Angle bisector 2. Construction of different angles using scale and compass 3. Construction of triangle when its one base length, one base angle and sum of other two sides is given 4. Construction of triangle when its one base length, one base angle and difference of other two sides is given
12. HERON'S FORMULA	1. Area of triangle by Heron's formula
13. SURFACE AREAS AND VOLUME	1. Surface areas of cube, cuboid, cone, cylinder, sphere and hemisphere 2. Volume of cube, cuboid, cone, cylinder, sphere and hemisphere

14. STATISTICS	1. Frequency distribution table & Bar graph
15. PROBABILITY	1. Explanation of terms related to probability 2. Conditions related to probability 3. Questions based on probability

****Chapter 5 and chapter 9 are not included in the syllabus for the session 2020-2021***

Subject Specific Tips:

- Make a chart of the formulas chapterwise with headings and read them daily till the board-exam. It's an easy way to have these formulas on tips. You can note down topics from the worksheets distributed by DOE also.
- Do enough written practice of different types of questions.
- Write the correct formula, draw neat & labeled figure and calculate properly wherever asked.
- For case-study based questions, apply mathematical concepts and formulas you have learned so far to solve the questions.
- For theorems, write GIVEN, TO PROVE, CONSTRUCTION, DRAW THE FIGURE and then prove the theorem.
- For word problems, read questions again and again and figure out what is given and what is asked? Think of the formula that is required, apply it and do the calculations carefully.