

Mathematics Syllabus – High School

Class VI to X

Class – VI	Class – VII	Class – VIII	Class – IX	Class – X
<p>Number System (90 hrs)</p> <p>(i) Knowing our Numbers: Consolidating the sense of Numbers up to 99,999 (five digits)</p> <ul style="list-style-type: none"> • Estimation of numbers • Comparison of numbers • Place value (recapitulation and extension). • Comparatives: use of symbols =, <, > • Word problems on number operations involving large numbers up to a maximum of 5 digits in the answer (This would include conversions of units of length & mass from the larger to the smaller units) • Estimation of outcome of number operations. • Introduction to large numbers <ul style="list-style-type: none"> a) up to lakhs and ten lakhs b) up to crores and ten crores • Approximation of large numbers • International system of numbers (Millions) • Use of Large numbers in daily life situations 	<p>Number System (90 hrs)</p> <p>(i) Integers</p> <ul style="list-style-type: none"> • Addition, Subtraction, Multiplication and Division of integers (through patterns) • Properties of integers under addition, multiplication & division through patterns (closure, commutative, associative, inverse, including identities and distributive properties) <ul style="list-style-type: none"> o Expressing properties in a general form. o Construction of counter examples. (e.g. Subtraction is not commutative) o Multiplication and division by zero • Word problems involving integers (on all operations) <p>(ii) Fractions Decimals and rational numbers:</p> <ul style="list-style-type: none"> • Multiplication of fractions • Fraction as an operator "of" • Division of fractions • Reciprocal of a fraction and its use • Word problems involving 	<p>Number System (90 hrs)</p> <p>(i) Playing with numbers</p> <ul style="list-style-type: none"> • Writing and understanding a 2 and 3 digit number in generalized form $(100a + 10b) + c$, where a, b, c can be any digit (0-9) and engaging with various puzzles concerning this (Like finding the missing numerals represented by alphabets in sums involving any of the four operations) • Children to solve and create problems and puzzles • Number puzzles and games • Understanding the logic behind the divisibility tests of 2, 3, 4, 5, 6, 7, 8, 9, and 11 for a two or three digit number expressed in the general form 	<p>Number System (20 periods)</p> <ul style="list-style-type: none"> • Real numbers <p>Review of representation of natural numbers, integers, and rational numbers on the number line.</p> <ul style="list-style-type: none"> • Representation of terminating / non terminating recurring decimals, on the number line through successive magnification. • Rational numbers as recurring / terminating decimals. • Finding $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ correct to 6 decimal places by division method • Examples of non-recurring / non terminating decimals such as 1.0101100110011111--- 1.12112111211112--- and $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ etc. • Existence of non-rational numbers (irrational numbers) such as $\sqrt{2}$, $\sqrt{3}$, and their representation on the number line. • Existence of each real number on a number line by using 	<p>Number System (20 periods)</p> <ul style="list-style-type: none"> • Real numbers (20 periods): <ul style="list-style-type: none"> • Euclid division lemma <ul style="list-style-type: none"> - Introduction, HCF - Some number generalisations • More about rational and irrational numbers. • Fundamental Theorem of Arithmetic – statements. • LCM, HCF • Properties of real numbers in terms of rationality and irrationality • Proofs of results- rationality of $\sqrt{2}$, $\sqrt{3}$ etc., and decimal expansions of rational numbers in terms of terminating, non terminating, recurring of decimals and vice versa. • Introduction of logarithms • Conversion of a number in exponential form to a logarithmic form • Properties of logarithms (eg, a⁰ =1; log_a 1=0

State Syllabus 9th Class Maths Guide

JA Banks



State Syllabus 9th Class Maths Guide:

Embracing the Melody of Term: An Emotional Symphony within **State Syllabus 9th Class Maths Guide**

In a world taken by displays and the ceaseless chatter of quick communication, the melodic splendor and mental symphony produced by the written term often fade into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. However, nestled within the pages of **State Syllabus 9th Class Maths Guide** a marvelous literary value filled with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this captivating masterpiece conducts readers on a mental trip, skillfully unraveling the hidden songs and profound impact resonating within each cautiously constructed phrase. Within the depths of this emotional examination, we shall examine the book is central harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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