

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--- 1.1211211121112--- 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"> • 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

SJ Ball



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