

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"> • 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

RJ Alexander



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innovations the design was the work of bruno sacco it presents itself with the clear lines and strong sense of composure that
characterises the appearance of mercedes benz vehicles from the outgoing 1980s well into the 1990s

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engines available for the first time the r129 was the last sl with a detachable hardtop and for many mercedes fans the last to
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the r129 replaced the r107 in 1989 and was in its turn replaced by the r230 sl class in 2002 for the 2003 model year the r129
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and peerless engineering and build quality adds to the desirability of this series of classic german machines and has ensured that many of these cars can still be seen in regular use today

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