

**Syllabus**  
**For admission to Class III**

**English**

1. Future of be, future he'll etc.
2. Use of have, had, e)
3. Use of many, very, is, there, are.
4. The use of any, some, how much, how many, with, can, can't, always, never in sentences.
5. Phrasal verbs with past progressive tense.
6. Direct and indirect object.
7. Simple present tense and simple past tense.
8. Use of may (permission), can (ability).
9. Forms of verbs-present, past, participles.
10. Fill in the blanks for lexical items.
11. Comprehension of simple stories.
12. Punctuation (use of capital letters, commas, full stop).
13. Development of a story on the basis of a given outline.

**Mathematics**

**Arithmetic**

1. Numbers: Number up to 1000, writing the number in words, writing the numerals, expanded notation, place value of a digit in a numeral, skip counting, Comparison of numbers, Before, After, Between, Ascending and Descending order, greatest and smallest number.
2. Addition, Subtraction & Multiplication.
3. Fractional number(one half and one fourth of a whole)
4. Money : Write in words, subtraction and addition related to Rupees and Paise
5. Measures of time: units, telling of time, Days of the week, Months of the year.
6. Measures of length : units adding and subtracting metres and centimetres
7. Measures of mass: units, addition and subtraction using Kg. and gm.
8. Measures of capacity: units, addition and subtraction using litres and ml.

**Geometry**

1. Geometrical shapes: various figures (cube, cuboid, cylinder, cone, sphere, rectangle, square, circle, triangle) and counting of vertices, faces and edges.
2. Plane and curved surfaces, lines : types of lines (Horizontal, Vertical, Slant Straight and curved line)

**Hindi**

अशुद्ध शब्दों का शुद्ध रूप में लिखना, संयुक्ताक्षरों को लिखना, कठिन शब्दों का अर्थ और उनका वाक्यों में प्रयोग, लिंग परिवर्तन, वचन परिवर्तन, विलोम शब्द, वाक्यांशों के लिए एक शब्द, वर्णों की उचित बनावट तथा शब्दों की सहायता से वाक्य पूरे करना।

**Syllabus**  
**For admission to Class IV**

**English**

1. Use of will, would, shall, should, let, must, can, could,
2. Use of what, which, who, why, how, when.
3. Use of both, a few, lot of, a little, ever, often, never, just, almost, more, fewer, less,  
**went, try, help and tell.**
4. Infinitives.
5. Comparison of Adjectives.
6. Opposite words.
7. Present participles, gerunds, present progressive tenses and past continuous tenses.
8. Question tags, affirmative and negative sentences.
9. Comprehension of simple stories Composition – (Descriptive) – My School, My class room, My hostel.
10. Function of various parts of speech in a sentence.
11. Punctuation (use of capital letters, commas, full stops & questions marks).

**Mathematics**

**Arithmetic**

1. Numbers: Numbers up to 10000, writing the numbers in words, writing the numbers in figures, expanded notation, comparison of numbers, Before, After, Between. Ascending and Descending order, Place value of a digit in a numeral, Formation of greatest and smallest numbers with the given digits.
2. Numbers up to nine thousand nine hundred and ninety nine: problems on four digit numbers.
3. Addition and Subtraction of four digits with word problems
4. Multiplication and word problems.
5. Division: Division with Remainder, division without remainder, Division by long division method, simple word problems on division.
6. Fractional numbers : Parts of a whole or a collection, proper fraction, numerator and denominator of a fraction, addition and subtractions of like fractions, comparison of like fractions, addition & subtraction.
7. Money: Conversion of Rs. to paise and paise to Rs. write in words, Addition, subtraction, multiplication, Division with word problems.
8. Measure of time: Conversion of days to hours, hours to minutes and seconds
9. Measures of length, Mass & Capacity and Conversions.

**Geometry**

1. Geometrical shapes (square, rectangle, circle, triangle, cube, cuboid, sphere cone, cylinder surfaces, edges and corners, point and line segment, drawing of line segment of given length



## Hindi

संयुक्ताक्षर एवं मात्राओं वाले शब्दों को शुद्ध कर के लिखना, शब्दों का अर्थ एवं वाक्यों में प्रयोग, लिंग परिवर्तन, लिंग परिवर्तन, विलोम शब्द, वाक्यांशों के लिए एक शब्द, सामान्य विषयों पर दस वाक्य लिखना, कविता लेखन, रिक्त स्थान, भिन्नार्थक शब्द को रेखांकित करना ।

**Syllabus**  
**For admission to Class V**

**English**

1. Use of shall, may (possibility), might, like, some, in different forms, even and yet, since and ago, have (obligation) enough, too, have too.
2. Punctuation.
3. Tenses: Present, past and future (with related time expression).
4. Opposite words.
5. Comprehension-Stories, composition (descriptive) e.g. My town etc.
6. Simple letter (Informal).
7. Various parts of speech and their functions in a sentence.

**Mathematics**

**Arithmetic**

1. Numbers: Number up to 100000, writing of numbers in words, figures, expanded notation, place value of a digit in a numeral, comparison of numbers, ascending and descending order, formation of greatest and smallest numbers with the given digits.
2. Multiples and Factors: Prime and composite numbers, even and odd numbers
3. Common factors and common multiples; LCM.
4. Large no: extend numbers up to one lakh, expanded Notation, expanding periods, numbers beyond one lakh.
5. Addition and subtraction of numbers with word problems.
6. Multiplication and division with word problems
7. Measures of length, mass, capacity: units of Measures, Changing from one unit into another unit, Addition and Subtracting Measures.
8. Fractional numbers: Types of fractions and changing improper fraction into mixed numeral, fraction of a whole, fraction of a collection, comparison of fractions
9. Addition and subtraction of fractional numbers.
10. Money: Addition, subtraction, multiplication, division involving Rs. and paise
11. Time: Time in hours and minutes, Time duration in hours and minutes.
12. Perimeter: Perimeter of a figure.

**Geometry**

1. Geometrical shapes (Square, rectangle, circle, triangle, cube, cuboid, sphere, cone, cylinder) Line segments: Comparing, Measuring and Constructing line segment of given length, Drawing of a circle, terms related to a circle.

**Hindi**

कठिन शब्दों व मुहावरों का अर्थ और वाक्य प्रयोग, संयुक्ताक्षर तथा मात्राओं वाले शब्दों को शुद्ध लिखना, लिंग तथा वचन परिवर्तन, संज्ञा, सर्वनाम, विशेषण, विलोम शब्द, वाक्यांशों के लिए एक शब्द, दो-दो पर्यायवाची अनुच्छेद लेखन, दस वाक्य लिखना जैसे गाय, हाथी, दीपावली, मेरा विद्यालय आदि विषय ।

\* Aptitude ~~Test~~ \* General Knowledge Test →

Syllabus  
For admission to Class VI

English

1. Past continuous tense involving the use of while, where, when, until, & present perfect continuous tense with since and for.
2. The causative use of have.
3. Time clause (when)
4. Preposition phrases
5. Past perfect tense with then, after, before, conditional sentences.
6. Exclamatory sentences
7. Auxiliary verbs.
8. Adjectives (Comparatives/Superlatives)
9. Use of : always, never, can, can not, be able to.
10. Parts of speech.
11. Comprehension; Composition (Descriptive and Narrative).
12. Letter writing (Informal).

Mathematics

Arithmetic

1. Operations on large numbers.
2. Multiplication and division of fractional numbers.
3. Decimals: Addition, Subtraction, Multiplication and division of decimals.
4. Simplification of Numerical expressions.
5. Rounding numbers.
6. Averages.
7. Area of rectangles and squares, Perimeter of rectangle and square.
8. Volume of cube and cuboid.
9. Percentages, Profit and loss & Simple interest.
10. Unitary method
11. H.C.F. and L.C.M.
12. Speed distance and time.

Geometry

1. Circles: Elements of a circle, Drawing of a circle.
2. Angles: Line, Line segment, ray, use of protractor to draw angles, types of angles, measurement of an angle using protractor
3. Triangles: Classification of triangles according to sides and angles.

Hindi

संज्ञा, सर्वनाम, विशेषण, क्रिया, लिंग, वचन, कारक का सामान्य ज्ञान तथा उन्हें वाक्यों में पहचानना, अशुद्ध शब्दों और वाक्यों को शुद्ध करना, मुहावरों और शब्दों का वाक्यों में प्रयोग, विलोम शब्द, पर्यायवाची, अनेक शब्दों के लिए एक शब्द, पशु-पक्षी, विद्यालय एवं पर्वों पर संक्षिप्त निबन्ध लिखना, आवेदन पत्र एवं व्यक्तिगत पत्र लिखना ।

\* Attitude & General Knowledge text. —



Syllabus  
For admission to Class VII

English

1. Countable and uncountable nouns, Auxiliary verbs, Preposition.
2. Affirmative and Negative sentences.
3. Punctuation.
4. Singular and plural numbers.
5. Adjectives, adverbs.
6. Tenses.
7. Degrees of comparison.
8. Use of shall and will.
9. Possessives and pronouns.
10. Conditional sentences adjectival clauses.
11. Infinitives (infinitive to and bare infinitives).
12. Direct and indirect speech.
13. Gerunds.
14. Comprehension passages, Composition writing and Letter writing.

Mathematics

Arithmetic

1. Natural and whole numbers: Operations and representation of whole numbers on a number line.
2. Factors, Multiples, HCF, LCM, Tests for Divisibility by 2,3,4,5,9,10,11
3. Integers: Representation of integers on a number line. Operations on integers. Absolute value of integer, use of brackets powers of integers, simplification of expressions involving brackets and arithmetical operations using BODMAS rule.
4. Ratio, Proportion and unitary method.
5. Percentages, profit and loss, and simple interest.

Algebra

1. Algebraic expressions: Powers and basic operations on literal numbers, variables and constants, addition and subtraction of algebraic expressions, finding the value of an algebraic Expression.
2. Linear equations in one variable, solving an equation.

Geometry

1. Basic concepts: point, line, plane, collinear points, concurrent lines.
2. Line segments: Construction of line segment, comparison and measurement of line segments.
3. Angles: Perpendicular lines, kinds of angles, interior and exterior angles, degree measure of angles. Use of protractor and set squares, pairs of angles
4. Parallel lines: Parallel lines, transversals, angles made by a transversal to two lines and two parallel lines.
5. Triangle: Properties of a triangle, classification of triangles.

P.T.O.

\* Attitude & General Knowledge test --

6. Constructions: Construction of an angle using a protractor (using ruler and compasses) construction of an angle equal to a given angle, construction of an angle bisector, construction of an angle of measure 60 degree, 30 degree, 90 degree, construction of perpendicular line to given line, perpendicular bisector of a line, construction of line parallel to the given line.
7. Perimeter of square and rectangle, Area of square and rectangle.

### Hindi

सामान्य विषयों पर छोटे-छोटे निबन्ध लिखना जैसे - विज्ञान के चमत्कार, प्रदूषण, होली, दीपावली, स्वतन्त्रता दिवस इत्यादि, व्यक्तिगत एवं प्रार्थना-पत्र लेखन, पर्यायवाची शब्द, विलोम शब्द, उपसर्ग, प्रत्यय, लिंग, वचन, कारक, संज्ञा, सर्वनाम, विशेषण, क्रिया आदि का सामान्य ज्ञान, अनेक शब्दों के लिए एक शब्द, मुहावरों का अर्थ लिख कर वाक्यों में प्रयोग करना, भाववाचक संज्ञा बनाना एवं शब्दों को शुद्ध करके लिखना।

\* Aptitude test and General knowledge.



**Syllabus**  
**For admission to Class VIII**

**English**

1. Countable and uncountable Nouns.
2. Articles.
3. Prepositions, sentence construction (Subject + verb + object).
4. Questions, Commands, Requests, Infinitives Adverbs.
5. Tenses (present past and future).
6. Use of since and for.
7. Special verbs: must, have to, need, ought to have.
8. Question tags.
9. Active and Passives voice.
10. Direct & Indirect speech.
11. Comparison of adverbs
12. Gerunds.
13. Infinitives, to combine sentences using relative pronouns.
14. Comprehension passages.
15. Composition writing.

**Mathematics**

**Arithmetic**

1. Rational numbers: Operations and decimal representation of rational numbers.
2. Exponents: Laws of exponents, zero exponent, use of exponent in expressing large and small numbers.
3. Directs and Inverse Variations: Mixed problems, Time and Work, Time and distance.
4. Percentage and some applications: Profit and loss, simple interest.
5. Areas: Measurement and unit of area, standard units of area, Area of a rectangle, Area of Rectangular paths.
6. Volume and surface Areas of cube and cuboid.
7. Bar Graphs: Construction of Bar Graphs.

**Algebra**

1. Algebraic Expressions: Multiplication of monomials binomials, Trinomials, factorization of algebraic expressions. Standard Identities  $(a+b)^2 = a^2 + 2ab + b^2$ ,  $(a-b)^2 = a^2 - 2ab + b^2$ ,  $(a-b)(a+b) = a^2 - b^2$
2. Linear equations in one variables: Solution and application of linear equations.

**Geometry**

1. Triangles: Types of triangles, Properties of isosceles triangle, angle sum property, exterior, interior and opposite angles, angle bisectors, altitudes, medians, perpendicular bisectors of the sides of a triangle & Pythagorean theorem.
2. Circles: Centre, radius, diameter, chords and arcs of a circle, semicircles, interior and exterior of a circle, segment of a circle, angles in a semicircle and in a segment

P.T.O.



## Hindi

वर्णों का ज्ञान, संज्ञा, सर्वनाम, विशेषण, क्रिया के भेदों सहित सामान्य ज्ञान, क्रिया-विशेषण, संबन्धबोधक, समुच्चयबोधक एवं विस्मयादिबोधक का सामान्य ज्ञान, लिंग, वचन तथा कारक का ज्ञान, इन सबको वाक्यों में पहचानना, विराम-चिह्न, विलोम शब्द, शब्द युग्म, तत्सम तथा तद्भव शब्द, अनेकार्थक शब्द, स्तर संधि तथा समास का सामान्य परिचय, उपसर्ग-प्रत्यय का सामान्य ज्ञान, अशुद्ध शब्दों तथा वाक्यों को शुद्ध करके लिखना, मुहावरों तथा शब्दों का वाक्यों में प्रयोग, वर्णनात्मक, सामाजिक, राष्ट्रीय पर्वों एवं ऋतुओं पर निबन्ध लेखन, व्यक्तिगत प्रार्थना पत्र तथा निमन्त्रण पत्र लेखन ।

\* *General Aptitude & General Knowledge text*

Syllabus  
For admission to Class IX

English

1. Tenses
2. Active & Passive Voice
3. Narration
4. Clauses: Noun, Adjective and kind of adjective, and kind of adverb
5. Prefix & Suffix
6. Prepositions
7. Infinitives
8. Gerunds
9. Simple, complex and compound sentences  
Transformation of sentences
10. Words and phrases
11. Punctuation
12. Composition: Writing a paragraph of about hundred words, letter writing and unseen passage of about 400-500 words.

Mathematics

Arithmetic

1. Squares and square roots: square root of perfect square, square root by the method of factors and long division, square root of fractions; extension of the numbers system to real numbers.
2. Cubes and cube roots: Cubes and cube root of perfect cube by factors, cube root of a negative integers, cubes and cube root of rational numbers.
3. Exponents and radicals: Laws of exponents for rational exponents, reciprocals of positive integers as exponents, positive and negative rational numbers as exponents.
4. Compound interest: Formula, conversion period, to find principal/time/rate, growth and depreciation.
5. Area of Rectilinear figures: area of rhombus, trapezium, quadrilateral and irregular rectilinear figures, area of triangle by heron's formula.
6. Circumference and area of circle: area of sector and area of a segment of a circle, length of an arc of a circle.
7. Volume and surface areas: Volume and surface areas of right circular cylinder, right circular cone and a sphere.
8. Statistics: Raw Data, arithmetic mean, frequency distribution histogram, grouping of data.

Algebra

1. Algebraic expressions: Special products -  $(a+b)$ ,  $(a-b)$ ,  $a-b$ ,  $a \div b$ ,  $a-b$ ,  $(a-b)$ ,  $(a-b)$ ,  $(a+b+c)$ ,  $(x+a)$   $(x+b)$ : factorization and division of algebraic expressions.
2. Equations in one variables: Equation of the form  $ax+b/cx+d=k$  application of equations to solve problem.

P.T.O.



### Geometry

1. Parallel lines: Parallel lines, their basic properties, intercepts, division of a line segment into equal parts construction of a line parallel to given line at a given distance.
2. Construction of quadrilaterals.
3. Chords of the circle.
4. Angle properties of circle.
5. Tangents to a circle.

### Hindi

वर्णों का ज्ञान, शब्द विचार - संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रिया-विशेषण, संवधबोधक, समुच्चयबोधक या योजक तथा विस्मयादिबोधक का ज्ञान, लिंग, वचन व कारक, उपसर्ग, विपरीतार्थक शब्द, पर्यायवाची शब्द, अनेकार्थी शब्द, अनेक शब्दों के लिए एक शब्द, भाववाचक संज्ञा विशेषण शब्दों की रचना, साधारण पद-परिचय ; शब्दों, मुहावरों तथा लोकोक्तियों का वाक्यों में प्रयोग ; अशुद्ध शब्दों तथा वाक्यों को शुद्ध करना, संधि तथा समास, वर्णनात्मक तथा विचारात्मक निबन्ध, व्यक्तिगत, प्रार्थना व निमंत्रण पत्र लेखन ।

General aptitude & G.K. Test →

## Syllabus for Entrance Test – Class XI

### English

Unseen comprehension – based on current affairs and five units of main course book of class X. Writing Section – Letter writing, report writing, article, message, email writing, etc. Grammar Section – Tenses, active/passive (voice), narration/direct indirect speech, correction of sentences, jumbled up words/re-arranging the words, editing, omission, completing the dialogues, preposition and conjunction.

### Mathematics

Real values, polynomials, linear equations, quadratic equations, arithmetic progressions, triangles, co-ordinate geometry, trigonometry and its applications, circles, construction, area related to circle, surface area and volume, statistics and probability.

### Science

**Physics** - Light-reflection & refraction, human eye, electricity, magnetism, sources of energy.

**Chemistry** - Carbon compounds, periodic classification of elements, acid, base and salts, chemical reactions.

**Biology** - Life processes, control and co-ordination, reproduction, heredity, our environment.

Note: Syllabus is based on NCERT