Delhi Public School Kashi

Syllabus for Entrance Test
Class – Prep

1. Self awareness
2. Alphabets – Capital and small letters A – Z
3. Numbers 1 – 50
4. General know- Name of fruits, vegetables, shapes, colours, common objects
5. Colouring the picture

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Syllabus for Entrance Test
Class – I

➢ **English:**

1. Match the pictures with words.
2. Opposites.
3. Animal and their young ones.
4. Fill in the blanks (pictures will be given)
5. Rhyming words.
6. Making sentences.
7. Fill in the blanks with missing letters.
8. See the pictures and answer the questions (orally)
9. Colouring of given pictures.

➢ **Mathematics:**

1. Simple addition and subtraction up to 19.
2. Lesser, greater, equal.
3. Before, after, in between.
4. Place value.
5. Write in words till 10.
6. Colour the bigger or smaller one.
7. Tick the longer, taller one.

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Syllabus for Entrance Test

Class – II

➢ English:

1. Simple Opposites
2. Singular & Plurals
3. Simple fill in the blanks
4. Framing Sentences
5. Naming objects
6. Answers to simple questions to test the general awareness for example:-
   Name of the month
7. Fill in the blanks (use is or are)
8. Fill in the blanks (use has or have)

➢ Mathematics:

1. Addition sums with carry over
2. Subtraction sums
3. Write the number names and numerals – 1 to 100
4. Put ($<$) or ($<$) or (=)
5. What comes after before & in between – 1 to 500
6. Write the missing numbers for example:- 275,276,277, _____, _____, _____.
7. Show O'clock timings in the clock drawn
8. Table of 2, 3, 4 & 5

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Syllabus for Entrance Test
Class – III

> **English :**
a. Noun (Naming words)
b. Verb (Doing words)
c. Adjective (Describing words)
d. Opposites
e. Number Noun (Plurals)
f. Make sentences
g. Use of full stop and capital letter
h. Paragraph on general topic
i. Picture composition

> **Mathematics:**

1. All the concepts with 3 digits numbers.
2. Writing numbers in words and figures
3. Writing before and after numbers (predecessor-successors
4. Greater (¿) and smaller (¿) numbers
5. Addition and subtraction with carrying and borrowing numbers
6. Problem with statements (addition, subtraction)
7. Filling up place holders. Example:
   _____ + 5 = 20
   2 x _____ = 10
   15 - ____ = 9
8. Multiplication table up to 10
9. Telling the time
10. Value of money
11. Place value
12. Ascending and Descending order
13. Skip counting _ e.g. 13, 14, 15 _____ ?
14. Greatest – smallest and for numerals from the digit given.
15. Shapes and fraction.

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Syllabus for Entrance Test

Class – IV

- **English :**
  - Use of a, an, the
  - Parts of speech (Noun, Verb, etc.)
  - Use of Punctuation mark capital letter.
  - Paragraph writing
  - Number Noun
  - Opposites
  - Comprehension

- **Mathematics:**

  1. (a) Write in words (till-9,999)
     (b) Write in numerals till (9,999)
     (c) Fill in the missing digits in simple mathematical statements, with four basic operations (addition, subtraction, multiplication and division)
     (d) To complete the pattern series. Expand notation, predecessor, successor, ascending order.
  2. Addition of four digit numbers.
  3. Subtraction including borrowing
  4. Multiplication and division with two digits multiplier and divisor respectively.
  5. Problems with statements, based on all the four fundamental operations.
  6. Measurements
  7. Time
  8. Calendar
  9. Money
  10. Table 2-16
  11. Roman number 1-50
  12. Simple Fraction

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Syllabus for Entrance Test
Class – V

➢ **English: -**

1. Parts of speech (Noun, pronoun, verb etc)
2. Tense (Present, Past, Future)
3. Use of punctuation mark & capital letters.
4. Use of articles (a, an, the)
5. Paragraph writing
6. Letter writing (informal)
7. Comprehension

➢ **Mathematics:**

1. Place Value
2. Number names
3. Multiplication Table (2-20)
4. Roman Numerals (1 to 100)
5. Descending and Ascending order
6. Using >, < or =
7. Calendar
8. Time
9. Money
10. Measurements (Conversion of m. to cm; km to m, l to ml; kg to gm etc)
11. Fraction
12. Four basic operations
13. Story problems based on four basic operation including borrowing.
14. Prime factors, HCF, LCM.

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Syllabus for Entrance Test

Class – VI

➢ **English**
- Composition
- Letter Writing (informal)
- Comprehension (unseen passage) with questions on content.
- Grammar
  1. Use of Articles
  2. Punctuation
  3. Opposites
  4. Nouns, verbs, adjectives and adverbs
  5. Correct spellings

➢ **Mathematics: -**

A. Basic idea of plane figures. (Triangle, Square, Pentagon, Hexagon)
B. Area and perimeter of squares and rectangle
C. Multiplication and division
D. Fractional numbers
E. Different shapes (Cylinder, cone, cube, cuboids)
F. Measuring the length of an object with the help of a scale
G. Conversion of:
1. Rupees into Paisa
2. Kilogram into Gram
3. Meter into Centimeter
H. Statistics tally marks and frequency of given data.
I. Decimals
J. Roman Numbers
K. Circles, Triangles
L. Basic Geometrical Concepts

➢ **Science**
a. Human body
b. Plants
c. Deficiency of nutrients and its effects
d. Diseases and their prevention
e. Natural Calamities
f. Force, work and energy
g. Simple machines the physical features of India.
h. The physical features of India.
i. The story of freedom struggle (1857-1947)
j. Fundamental rights
k. Sushruta

I. M. S. Subbulakshmi

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Syllabus for Entrance Test
Class – VII

➢ **English**
1. Knowledge of the following is necessary:
2. Composition writing
3. Informal letter writing
4. Answering comprehension questions change of direct speech into indirect speech
5. Change or direct speech into indirect speech
6. Tenses – the correct form of verb.
7. Punctuation
8. Active and passive voice
9. Use of prepositions
10. Use of conjunctions
11. Word formation –prefix, suffix synonyms and antonyms

➢ **Mathematics**

Numbers: Addition , subtraction, multiplication, division and comparison of whole numbers, fractional numbers and decimal. HCF, LCM of whole numbers, simplification of experiments involving whole numbers, fraction, mixed numbers decimals and more than one more that one operation.

Commercial Maths:
Profit and loss percentage and everyday life problems involving percentage calculation. Ratio and proportion, unitary method.
Area & Volume:
Perimeter and area of rectangle and square, volume of a cube and a cuboids.

Geometry
Angle: Concept of an angel, interior and exterior of an angle, construction and measurement of an angel using protector.

Triangles: Characteristics of a triangle, classification of triangles on the basis of their sides/ angle using protector.

Circle: Terms associated with a circle viz, centre, radius, diameter and circumference. Construction of circle with given radius. Relationship between radius and circumference.

- **Physics**
  - A. Motion & measurement of distance
  - B. Light, Shadows and reflection
  - C. Electricity and circuit
  - D. Fun with magnetic
- **Chemistry**
  1. Water
  2. Air around us
  3. Fiber to fabric
  4. Sorting materials into groups
  5. Separation of substances
  6. Changes around us.
- **Biology**
  a. Components of food
  b. Food, where does it come from
  c. Getting to know plants
  d. Body movement
  e. Living organism and their surroundings
  f. Garbage in and Garbage out.

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Syllabus for Entrance Test
Class – VIII

- **English**
  a. Composition
     1. Reflective or expository
     2. Descriptive
     3. Argumentative
  b. Letter writing (Formal & informal)
     1. Friendly letters including social letters and notes of invitations.
     2. Letters of application
  c. Unseen passage
  d. Punctuation
  e. Grammar
     1. Parts of speech
     2. Tenses
     3. Reported speech
     4. Preposition
     5. Word formation
     6. Correction of sentences with common errors.

- **Mathematics**

     1. Integers Properties of addition, subtraction and multiplication of integers
     2. Fraction and Decimals: Multiplication and division of fractions and decimal numbers.
     3. Simple Equations
     4. Lines and Angels: Complimentary and supplementary angles, adjacent angles, linear pair, vertically opposite angle, angels made by a transversal.
     5. The triangle and its properties: Median, Altitude, Exterior angle of a triangle and its properties, angle sum property of a triangle, Pythagoras property, sum of the length of two sides of a triangle.
     6. Congruence of triangles: Criteria for congruence of triangles.
     7. Commercial maths: Ratio and proportion, percentage, simple interest, profit and loss.

8. Rational numbers: Positive and negative rational numbers, rational number on a number line, rational number in standard from, operation of rational numbers.
9. Practical geometry: Constructing a line parallel to a given line, construction of triangles.
10. Perimeter and area: Perimeter and area of square, rectangle, triangle. Circumference and area of a circle.
11. Algebraic expressions: Terms of an expression, coefficients, lie and unlike terms. Monomials, binominals, trinomials, polynomials, addition and subtraction of algebraic expressions, finding the value of an expression.
12. Exponents and Powers: laws of exponents, decimal number system, expression large numbers in the standard form.

- **Physics:**
  a. Heat
  b. Motion and time
  c. Electric circuit and its effect
  d. Light
  e. Wind storm and cyclone
- **Chemistry**
  a. Fibre to fabric (Wool and Silk)
  b. Physical and chemical change
  c. Acid, base and salt
  d. Water – a precious resource
  e. Waste water story
- **Biology**
  a. Nutrition in plants
  b. Nutrition in animals
  c. Soil
  d. Respiration in organism
  e. Transportation in plants and animals
  f. Reproduction in plants
  g. Forest our Life line
  h. Weather, climate and adaptation of animals to climate.

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Syllabus for Entrance Test

Class – IX

➢ **English**
1. Unseen Comprehension passage
2. Notice writing
3. Paragraph writing
4. Gap completion based on Reported speech and passive voice
5. Filling in blanks with correct form of the verbs.

➢ **Mathematics**
1. **Arithmetic**
   a. Square and square roots.
   b. Cube and cube roots
   c. Exponents and powers
   d. Rational numbers
   e. Direct & inverse proportion
2. **Algebra.**
   a. Some identities, factorization of algebraic expression.
   b. Equation in one variable
3. **Angle sum property of quadrilateral**
4. **Commercial Maths:**
   a. Compound interest
   b. Percentage
   c. Profit, loss & discount
5. **Menstruation**
   a. Area of rectilinear figures (Rectangle, square, triangle, parallelogram, circle, quadrilateral and polygon)
   b. Volume and surface areas of cube, cuboids and cylinder.
6. **Probability**

➢ **Physics:**
1. Force and pressure
2. Frictional force
3. Sound
4. Light
5. Stars and solar system
6. Some natural phenomena

- **Chemistry:**
    1. Metals and non-metals
    2. Coal and petroleum
    3. Combustion, flame and current
    4. Pollution of air and water

- **Biology**
    a. Crop production & management
    b. Micro-organism
    c. Conservation of plants and animals
    d. Cell structure
    e. Reproduction in Animals
    f. Reaching the age of adolescence

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Syllabus for Entrance Test
Class – XI (Science)

➢ **English:**
   a. Unseen Comprehension Passage
   b. Writing article, repot (80-100 words)
   c. Filling blanks with the correct form of verbs.
   d. Active and passive voice
   e. Suffixes and prefixes

➢ **Physics:**
   1. Light: - Nature of light, reflection of light, laws of reflection, reflection from plane and curved surfaces, mirror-plane, concave and convex, sign conventions, derivation of mirror formula, magnification laws of refraction, refraction through a rectangular slab, image formation by concave and convex lenses, lens formula (with simple treatment) sign conventions, power of lenses, some optical phenomenon in nature (twinkling of stars, mirage) defects of visions and their correction. Dispersion of white light by a glass prism, composition of white light, colour of objects and pigments, superposition of light of primary colours.

   2. Electricity and its effects:- Potential and potential difference, electric current, Ohm's law, combination of resistances in series and parallel, heating effects of electric current and its application. Power, commercial unit of electrical energy, electrolysis faraday's law (excluding equations), electroplating, electrochemical cells – dry cells.

   3. Magnetic effect of current: - Magnetic field due to current carrying conductor straight, coil, solenoid (qualitative idea only), electromagnetic induction, electric motor and generator (D.C.), direct and alternating current (qualitative idea), domestic electric circuits, safety measures in using electricity.

   4. Sources of energy:- Renewable and non-renewable sources, renewable sources – solar energy (solar cooker, solar water heater, solar cell) wind energy-hydro energy (tidal, ocean, thermal, hydroelectric) geothermal, wood, biogas, hydrogen and alcohol. Non-renewable sources-fossil fuels (coal, petroleum and natural gas), conditions of combustion choice of a good fuel, efficient use of fuels nuclear fusion, nuclear fission, chain reaction, nuclear reactor (basic principle and safety measures).

   5. Mechanics: - Velocity, acceleration, force, work, energy, power, Newton's law, gravitational force, acceleration due to gravity.

- ➢ **Chemistry: -**
  1. Chemical Reactions and Equations:- Balanced chemical equations and unbalanced equation to make chemical equation more informative, important examples on writing of balanced chemical equation, types of chemical reactions effects of oxidation reaction in everyday life corrosion and rancidity.
  2. Metals and non metals:- Physical properties of metals and non metals. Chemical properties of metals and non metals. How do metals and non metal react ions, formation of ions types of bonds, minerals and ores, extraction of metals, refining of metals corrosicen of metals, rusting of iron.
  3. Acids, Bases and Salts:- Indicators for testing acid and bases, litmus, strong acid and weak acid, base. Water soluble in the absence of water, properties of acid and bases and salt PH scale, common salt, caustic soda, washing soda, baking soda, bleaching power.
  4. Carbon and its Compounds:- Allotropes of carbon, types of organic compounds names of carbon compounds, ethanol and ethanoic acid, IUPAC, naming of IUPAC
  5. Periodic Classification of Elements:- Mendeleev's periodic table, mendeleev's classification of elements, modern periodic law, characteristics of the periods and groups of the periodic table, valency, size of atoms, metallic character.
  6. Atomic Structure: - Atom, models J. J. Thomson, Rutherford, neil bohr, Dalton atomic theory, atomic number, mass number, discovery of electrons protons, neutrons, Atomic structure.

- ➢ **Biology: -**
  1. Our environment:- Environmental problems, their solutions biodegradable, non biodegradable, ozone depletion.
  2. Life processes:- Living things, basic concept of nutrition, respiration, transport and excretion in plants and animals.
  3. Control and Co-ordination in plants and animals:- Tropic movements in plants, introduction to plant hormones, control and co-ordination in animals, voluntary, involuntary and reflex action, nervous system, chemical coordination and animal hormones.
  4. Reproduction: - Reproduction in plants and animals need for and methods of family planning safe sex vs HIV, Aids, child bearing and women's health.
  5. Heredity and Evolution Heredity:- Origin of life, brief introduction, Basic concepts of evolution
  6. Natural Resources:- Conservation of natural resources'. Management of natural resources, conservation and judicious use of natural resources. Forest and wild life, coal and petroleum conservation, peoples participation chipko movement legal perspectives in conservation and international scenario.

The regional environment gig dams, advantages and limitations, alternatives if any. Water harvesting sustainability.

- **Higher Mathematics (for groups with mathematics)**
  1. Algebra: -
     a. Linear equation in two variables
     b. Polynomials
     c. Quadratic equations
     d. Arithmetic progressions (A.P.)
  2. Menstruation:
     a. Area of the sector and segment of a circle
     b. Surface area and volume of cube, cuboids, cylinder, sphere, cone and frustum.
  3. Trigonometry:
     a. Trigonometrical identities and expressions (proof)
     b. Trigonometrical ratios of complimentary angles
     c. Problems on height and distant
  4. Probability
  5. Similar Triangles
  6. Distance and section formulae
  7. Mean, mode and median of grouped data

- **Lower Mathematics (for groups without mathematics)**
  1. Algebra
     a. Linear equation in two variables
     b. Polynomials
     c. Quadratic equations.
     d. Arithmetic Progressions
     e. Use of BODMAS
  2. Mensuration:
     a. Area related to circle
     b. Surface area and volumes of cube, cuboids, cylinder, sphere and cone.
  3. Trigonometrical identifies and ratios of complementary angles.
  4. Probability
  5. Problems on distance & section formulae
  6. Problems on mean, median and mode

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Syllabus for Entrance Test
Class – XI (Commerce)

➢ **Commerce**:- General awareness and current affairs in the areas of banking, trade & commerce, business & industry, media & advertising, Information & Technology.

➢ **Economics**: - Course content as per NCERT syllabus of economics std: IX & X.

➢ **Mathematics**: - General mathematics comprising of questions based on linear equation, number system, percentage, ratio, fraction, time and work, speed, distance and time.

➢ **Reasoning**: - Questions based on mental ability, aptitude, English language and logical applications.

➢ **English:**
   a. Unseen Comprehension Passage
   b. Writing article, repot (80-100 words)
   c. Filling blanks with the correct form of verbs.
   d. Active and passive voice
   e. Suffixes and prefixes