



DELHI PUBLIC SCHOOL

Aligarh

SYLLABUS OF INTERACTION FOR ADMISSION IN PLAYGROUP

The admission to Play Group is based on simple activities relating to various areas of learning and growth, through which we assess the physical and emotional readiness of the child for attending the school.

We specially watch out for :-

- Self awareness-knowledge about himself / herself, family members and environment.
- Self confidence and communication skills.
- Ability to socialize with other children and his / her play habits.



DELHI PUBLIC SCHOOL

(Aligarh / Civil Lines / Hathras)

SYLLABUS OF INTERACTION FOR ADMISSION IN NURSERY

The admission to Nursery is based on simple activities relating to various areas of learning and growth, through which we assess the physical and emotional readiness of the child for attending the school.

We specially watch out for:-

- Self awareness-knowledge about himself / herself, family members and environment.
- Self confidence and communication skills.
- Ability to socialize with other children and his / her play habits.



DELHI PUBLIC SCHOOL

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SYLLABUS OF INTERACTION FOR ADMISSION IN PREP

The admission to Prep is based on simple activities relating to various areas of learning and growth, through which we assess the physical and emotional readiness of the child for attending the school.

We specially watch out for :-

- Self awareness-knowledge about himself / herself, family members and environment.
- Self confidence and spirit of independence in the child.
- Ability to socialize with other children and participate in group activities.
- **Diagnostic Test :**
 - i. Recognition of A to Z in Capital letter and Small letter.
 - ii. Recognition of numbers 1 - 50.
- Memory Test (Visual) – recollection of objects shown.
- **Observation Test**
 - i. To point out what is missing in a picture.
 - ii. To point out what does not belong to a set.
 - iii. Identification of colours, shapes and objects.
 - iv. Identification of Hindi letters with vocabulary.



DELHI PUBLIC SCHOOL

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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – I

ENGLISH

- Common words and their opposites.
- Use of vowels, one and many.
- Fill in the blanks, matching pictures with words.
- Rhyming words e.g. sun-bun, pin-tin, pen-ten etc.
- Reading of 2-3 letter words.

MATHS

- Simple addition and subtraction 1-20
- Shapes and size.
- Number names 1-50, Backward counting (50-0)
- Location of Top and Bottom.
- Concept of heavy and light.
- Numbers Greater than ($>$), Smaller than ($<$), Equal to ($=$). (within 1- 50)
- Numbers Before, after, in between. (within 50)
- Skip counting of 2.

HINDI

- शब्द-ज्ञान : आम वस्तुओं के नाम (आ की मात्रा सहित)
- खाली स्थान भरो
- स्वर एवं व्यंजन
- पठन –दो और तीन अक्षर के शब्द (अमात्रिक)



DELHI PUBLIC SCHOOL

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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – II

ENGLISH

- Vocabulary – Naming words.
- Making sentences.
- Picture reading (eg. 5 sentences – on a given picture).
- Use of full stops and capital letters.(Punctuation marks in a simple sentence)
- Opposites.
- Use of he / she, his / her.
- Plurals.
- These those / This, that.
- Fill in the blanks using given words.
- Jumbled words.
- Simple preposition(e.g in, out, near, on, under)

MATHS

- Addition and subtraction of (two digits)
- What comes before, after and in between/ expanded form of 2 digit numbers.
- Use of greater than(>), Lesser than(<) and equal to(=) in 2 digits numbers
- Number names – 1 to 99.(spellings)
- Skip counting in 2's,3's,4's&5's from numbers 1 to 99.
- Reading –Time (only the full hours)
- Ordinals – first to tenth.
- Shapes
- Multiplication Tables – 1-5
- Backward counting 99-1.

HINDI

- शब्द-ज्ञान : आम वस्तुओं के नाम (सभी मात्राओं का प्रयोग)
- खाली स्थान भरो
- विपरीत शब्द (Simple)
- वाक्य बनाओ
- चित्र पठन (केवल 5 वाक्य)
- महीनों और दिनों के नाम
- एक – अनेक
- मात्रा प्रयोग



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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – III

ENGLISH

- ★ Comprehension passage with questions.
- ★ Speaking few lines on given topics.
- ★ Fill in the blanks with suitable words.
- ★ Punctuation (Use of capital letter, Comma and full stop, Q. mark.)
- ★ Alphabetical order.
- ★ Articles use of a, an
- ★ Opposites
- ★ Singular and plural.
- ★ Common and proper noun.
- ★ Gender.
- ★ Verbs, Adjective, Pronouns, Simple Prepositions

MATHS

- ★ All the 4 operations (addition, subtraction ,multiplication with 2 digit numbers & division with 2 digit numbers)
- ★ Identification of numbers up to 999.
- ★ Before, After and In Between numbers.
- ★ Use of Greater than (>), Smaller than (<), Equal to (=)
- ★ Place Value.
- ★ Ascending and Descending order.
- ★ Multiplication table up to 10.
- ★ Addition and subtraction of 2 digit numbers with carrying and borrowing.
- ★ Filling up place holders, examples:
 - X 5 = 20
 - 2 x = 10
 - 15 - = 9
 - ❖ Expand (both ways)
 - ❖ Telling the time
 - ❖ Calendar
 - ❖ Even and odd
- ★ Geometry
 - Solid shapes
 - Straight line, curved line

HINDI

- ★ सभी मात्राओं का ज्ञान
- ★ विपरीत शब्द, लिंग बदलना, एक – अनेक
- ★ वाक्य बनाओ, समानार्थक शब्द, तुकबंदी शब्द, शब्दों को शुद्ध करो
- ★ चित्र पठन
- ★ संयुक्त अक्षर
- ★ अपठित गद्यांश
- ★ महीनों और दिनों के नाम
- ★ संज्ञा, सर्वनाम, विशेषण, संख्याएँ (अंको में)



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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – IV

ENGLISH

- ★ Comprehension passage (questions and answer, finding the meaning from the passage)
- ★ Speaking a few lines on given topics or picture composition.
- ★ Nouns (Common Noun, Proper noun, Collective noun)
- ★ Gender
- ★ Tenses – Present, Past (Simple)
- ★ Opposites (in sentences also)
- ★ Adjective, Verbs (Underline/ fill in the blanks).
- ★ Fill in the correct word (eg. There/their) (here/hear)
- ★ Articles use of 'a', 'an' and 'the'.
- ★ Correct the spelling
- ★ Punctuation – Capital letters, Full stops, commas, question mark, exclamation mark.

MATHS

- ★ Number names (till 9,999)
- ★ Fill in the missing digits in simple mathematical statements, with four basic operations (addition subtraction, multiplication and division).
- ★ To complete the patterns series. Expanded notation predecessor, successor, ascending and descending order.
- ★ Addition of four digit numbers including carry over.
- ★ Subtraction of four digit number including borrowing.
- ★ Multiplication and division with two digit multiplier and divisor respectively till 15.
- ★ Problems with statements, based on all the four fundamental operations
- ★ Measurement (length only)
- ★ Time
- ★ Calendar
- ★ Money
- ★ Roman number 1 to 50
- ★ Simple fractions
- ★ Pictorial representation of data
- ★ Geometrical shapes.

HINDI

- ★ अपठित गद्यांश – उचित शब्दों द्वारा खाली स्थान भरो विपरीत शब्द, वचन बदलना (अपठित पर आधारित)
- ★ संयुक्त अक्षर सही क्रम देकर वाक्य लिखना, वाक्य शुद्धि
- ★ चित्र पठन
- ★ अनेक शब्दों के लिए एक शब्द
- ★ महीनों व दिनों के नाम
- ★ संज्ञा, सर्वनाम, क्रिया, लिंग



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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – V

ENGLISH

- ★ Comprehension (Poem, Picture, Passage)
- ★ Composition (Picture with Clues)
- ★ Application and informal letter.
- ★ Adjectives
- ★ Nouns (Common, Proper, Collective, Abstract)
- ★ Types of sentences (Statement/Question)
- ★ Helping verbs
- ★ Adverb
- ★ Punctuation
- ★ Articles
- ★ Verbs & Tenses
- ★ Gender
- ★ Rhyming Words

MATHS

- ★ Numerals up to 9 digits
- ★ Number names in Indian system
- ★ Expanded form of numerals (in three different ways)
- ★ Composition of numerals
- ★ All four basic operations
- ★ Unitary method
- ★ Factors and multiples
 - Common factors and common multiples
 - Primes and composites
 - Prime factorization
 - H.C.F.
- ★ Metric measures of length, mass and capacity
- ★ Fractional numbers
 - Kinds of fractions
 - Lowest terms
 - Addition and subtraction of fractional numbers
- ★ Geometry
 - Point, Line, Ray, Line segments.
- ★ Money
- ★ Time
- ★ Roman numerals (1 to 50)

HINDI

- ★ अपठित गद्यांश व उससे संबंधित कार्य : जैसे – शब्दार्थ, प्रश्नोत्तर, वाक्य बनाना, विलोम, पर्यायवाची, संज्ञा, सर्वनाम, क्रिया, विशेषण, लिंग परिवर्तन।
- ★ उचित शब्दों द्वारा खाली स्थान भरो
- ★ संज्ञा, सर्वनाम, क्रिया, विशेषण शब्द, विपरीत शब्द, वचन बदलना, मुहावरे, वचन, अशुद्धि शोधन, अनेक शब्दों के लिए एक शब्द
- ★ शब्द या वाक्य शुद्ध करके लिखना
- ★ अनुच्छेद व कहानी वाचन
- ★ लिंग बदलकर वाक्य बतायें
- ★ उचित विराम चिन्ह लगाना
- ★ गिनतियाँ (शब्दों व अंको में)



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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – VI

ENGLISH

- ★ Composition based on visual input/given topic.
- ★ Letter (informal, formal) and Application
- ★ Comprehension (Passage/poem) with questions on content.
- ★ Grammar – Articles, Preposition, Verbs, Pronouns.

MATHS

- ★ **NUMBERS:** Addition, Subtraction, Multiplication, Division & Comparison of whole numbers, H.C.F., & L.C.M. of whole numbers, Simplification of expressions involving whole numbers, Fractions, Mixed Numbers, Decimal and all four basic operations
- ★ **COMMERCIAL MATHEMATICS:** Profit & Loss, Estimation (rounding off).
- ★ **AREA & VOLUME:** Perimeter & Area of a rectangle and square, Volume of a cube and cuboid.
- ★ **ANGLES:** Concept of an angle, interior & exterior of an angle, types of angle.
- ★ **TRIANGLES:** Characteristics of a triangle on the basis of their sides & angles.
- ★ **CIRCLE:** Term associated with circle namely, Centre, Radius, Diameter and Circumference.

SCIENCE

- ★ **SOLAR SYSTEM:** Artificial satellites, The Sun
- ★ **SOLID, LIQUIDS & GASES:** Miscible – immiscible liquids, molecular arrangement of solid, liquid and gases, molecules.
- ★ **LIVING THINGS (Plants and Animals)**
 - Features of living things and comparison with non living things.
 - Environment and adaptation, plants and animals in water, deserts, mountains and air.
- ★ **ANIMALS WITH VARYING LIFE STYLES**
- ★ **PLANTS**
 - Reproduction in plants, parts of seed, germination, stages of germination, new plants, crops and vegetables and production of crops, seed dispersal.
- ★ **HUMAN BODY – FOOD AND HEALTH**
 - Balanced Diet, Exercise, Diseases, Causes of diseases, prevention of diseases and Vaccination.
- ★ **NATURAL RESOURCES: GIFTS OF NATURE**
 - Natural resources on the ground (Land, air, water, animals & plants) underground natural resources, conservation of natural resources, Pollution
- ★ **SOIL, ROCKS AND MINERALS**
 - Erosion & conservation, types of rocks, coal & petroleum
- ★ **HOUSING**
 - Types of houses, design of a house, need of house, maintenance of house.



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SYLLABUS OF INTERACTION FOR ADMISSION IN CLASS – VII

ENGLISH

- ★ Visual Composition
- ★ Informal Letter , Application
- ★ Parts of speech(Noun,Verb,Adjective,Adverb,Pronoun,Tenses(Perfect),Articles(a,an,the), Active-Passive

MATHS

- ★ **NATURAL AND WHOLE NUMBERS:** HCF & LCM, rules of divisibility
- ★ **INTEGERS, FRACTIONS AND DECIMALS:** Addition and subtraction, multiplication, representation of integers on the number line, types of fractions, comparing fractions.
- ★ **RATIO AND PROPORTION AND UNITARY METHOD, DATA HANDLING:** Ratio between two quantities, proportion between four number equivalent ratios, presentation of data
- ★ **MENSURATION:** Perimeter and Area of square, rectangle, perimeter of triangle.
- ★ **ALGEBRIC EXPRESSIONS:** Formation of algebraic expressions, mathematical operations

SCIENCE

- ★ Sorting Material into groups: Properties of materials, floating, sinking, and translucent.
- ★ Separation of substances: Methods of separation
- ★ Changes around us: reversible & irreversible changes
- ★ Motion and Measurement of distances: Types of Motion
- ★ Light, shadows and Reflections :Shadows, Reflections
- ★ Electricity and circuits: Electric Cell, Bulb, Electric circuit, Conductors and insulators.
- ★ Fun with Magnets: Magnetic & Non-Magnetic materials, Poles, Finding directions.
- ★ Food-Ingredients components of food-nutrients and their sources, tests for different nutrients, deficiency diseases, balanced diet.
- ★ Getting to know plants- Difference in Herbs, shrubs and trees, parts of plant, venation, transpiration, parts of flower.
- ★ Body movements- Skeletal system, joints, movement in earth worm, snail and fish.
- ★ Living organisms and their surroundings- Habitat and adaptation, components of habitat, characteristics of living things.
- ★ Water- water cycle, rainwater harvesting.



DELHI PUBLIC SCHOOL

(Aligarh / Civil Lines / Hathras)

Syllabus of Interaction for admission in Class VIII

ENGLISH

- Visual Composition, Message and Notice.
- Formal and Informal Letters, Application.
- Parts of speech (Noun, verb, adjective, adverb, pronoun, conjunction), Tenses, Articles (a, an, the) Sentence Identification (Assertive, Interrogative, Imperative, Exclamatory).

MATHEMATICS

- **Operation of rational numbers** – Definition of Rational numbers, Standard form of rational numbers, Comparison of two rational numbers, Operation of rational numbers.
- **Integers, Fractions and Decimals** - Proper fractions, Improper fractions, Mixed fractions, Operation of integers, Fractions and Decimal numbers.
- **Comparing Quantities** - Percentage, Conversions of ratio to percentage and percentage to ratio, Increase or Decrease as percent, Profit or Loss as percent, Simple Interest and Amount.
- **Algebraic Expression** - Operations of algebraic expression, Algebraic Identities.
- **Perimeter and Area** - Perimeter & areas of rectilinear figures.
- **Data Handling** – Arithmetic mean, Mode, Median, Probability.
- **Simple Equation** – Meaning and solution of equation.
- **Lines and Angles** – Line, Line segment, Ray, Complementary angles, Supplementary angles, Adjacent angles, Linear pair, Vertically opposite angles, Parallel lines.

SCIENCE

- **Heat** : Temperature, Thermometers, Transfer of heat.
- **Motion and time** : Types of motion, speed.
- **Electric current and its effect**: Symbols of electric components, Heating & Magnetic effect of electric current.
- **Light** : Reflection, Types of mirrors, Lens.
- **Physical and chemical changes** : Definition and examples of Physical and chemical changes, Rusting of iron, Galvanization, Crystallization.
- **Acids, bases and salt** : Definitions and examples of acids and bases, Natural Indicators, Neutralization.
- **Waste water story** : Sewage, WWTP, Sanitation and diseases
- **Nutrition in plants** : Mode of nutrition in plants, photosynthesis, heterotrophic mode, Insectivores
- **Nutrition in animals** : Human digestive system, digestion in herbivores(ruminants), feeding and digestion in amoeba.
- **Weather, climate and adaptations of animals to climate** : Adaptations of animals in polar regions and tropical rain forest, migration of animals.
- **Respiration in organism** : Types of respiration, breathing, respiratory system in human.
- **Transportation in animals and plants** : Circulatory system in human, heart and heartbeat, excretory system in human, transport of substances in plants, transpiration.
- **Reproduction in plants** : Modes of reproduction.



DELHI PUBLIC SCHOOL

(Aligarh / Civil Lines)

Syllabus of Interaction for admission in Class IX

ENGLISH

- Visual Composition , Message and Notice.
- Formal and Informal Letters, Application.
- Parts of speech (Noun, verb, adjective, adverb, pronoun, conjunction, preposition), Tenses, Determiners, Active and Passive Voice, Direct and Indirect Speech.

MATHEMATICS

- **Rational Numbers** – Operation on Rational numbers, Additive inverse, Reciprocal or multiplicative inverse, inserting rational numbers b/w given two rational numbers.
- **Comparing Quantities** - Selling price, Cost price, Profit or Loss as percent, Finding Discounts, Tax percentage, Simple interest and amount, Compound interest.
- **Square Roots and Cube Roots**- Perfect squares, Pythagorean triplets, square roots, cube roots of perfect cubes.
- **Understanding Quadrilateral** - Convex and concave quad, Angle sum property of quad., Kinds of quadrilateral. Properties of parallelogram, rectangle, rhombus, square.
- **Mensuration** – Areas of different figures- rectangle, square, parallelogram, trapezium, triangle, circle. Surface area & volumes of solid figures- cuboid, cube, cylinder.
- **Algebraic Expressions and Identities** - Addition, subtraction, multiplication of algebraic expressions, Applying identities.
- **Factorisations** – Factorisation by algebraic identities, Division of algebraic expression.

SCIENCE

- **Force and Pressure**: Force, Contact, Non- contact forces, Pressure.
- **Friction**: Friction, Factors affecting friction, Increasing and reducing friction, Static, Sliding & Rolling friction.
- **Sound**: Production of sound, Characteristics of sound, Audible and inaudible sound.
- **Chemical effects of electric current**: Chemical Effects of electric current, Electroplating.
- **Some Natural Phenomena**: Transfer of Charge, Lightning, Earthquake.
- **Light**: Laws of reflection, Multiple images, Dispersion of light, Human eye.
- **Synthetic fibers and plastic**: Types of synthetic fibers and plastic, Plastic and environment.
- **Materials**: Metals and Non metals, Physical and chemical properties of metals, Reaction of metals with acids and bases, Element.
- **Coal and Petroleum**: Solid, liquid and gaseous fuels, Petroleum, Natural gas.
- **Combustion and Flame**: Combustion, Ignition temperature, Types of combustion, Flame, its structure, Fuel efficiency, Global warming, Acid rain.
- **Crop production and management**-Agricultural practices, Protection of crops.
- **Micro organisms**- Types of different micro organisms and their uses, Nitrogen cycle, Common diseases in human and plants.
- **Conservation of plants and animals**: Deforestation, its causes and consequences, Flora and fauna, Endemic species, Red data book, Migration, Recycling of paper, Reforestation.
- **Cell**: Structure and function, Parts of cell, Comparison between plants and animal cells.
- **Reproduction in animals**: Asexual reproduction , Human reproductive system, Fertilization.
- **Reaching the age of adolescence**: Adolescence, puberty, Changes at puberty, Sex hormones and other hormones.



DELHI PUBLIC SCHOOL (Aligarh / Civil Lines)
SYLLABUS FOR ADMISSION / INTERACTION FOR CLASS XI
STREAM – PCM

SUBJECT : ENGLISH

Section A (Reading) : Unseen Poems and Passages.

Section B (Writing Skills) : Biographical Sketch, Email, Informal & Formal Letters, Description (Place, Process, Event, Object) Data Interpretation, Dialogue writing, Story writing, Diary entry, Article, Speech, Report writing, Debate, Notice and Message.

Section C (Grammar) : Tenses (Verb Forms), Determiners, Editing, Omission, Subject verb agreement , Reported Speech(Narration), Sentence reordering, Conditionals, Connectors, Modals, Active & Passive Voice (News headlines & process completion), Comparison, Non finites, Relatives, Prepositions, Avoiding Repetition and Nominalization.

SUBJECT : MATHEMATICS

1. **Quadratic Equation:-** Graphical & Algebraic methods to solve a pair of linear equations, nature of a roots etc.
2. **Arithmetic Progression:-** n^{th} term of an A.P., Sum of first 'n' terms of an A.P.
3. **Coordinate Geometry:-** Distance formula, Section formula, Area of triangle etc.
4. **Applications of Trigonometry:-** Heights and Distance.
5. **Circles:-** Tangents to a circle, Number of tangents from a point on a circle.
6. **Areas related to circles:-** Perimeter and area of a circle, Areas of sector and segment of a circle, Areas of combinations of plane figures.
7. **Surface Areas and Volumes:-** Surface areas of combination of solids, volume of a combination of solids, conversion of solid from one shape to another, frustum of cone.
8. **Probability:-** Probability-A Theoretical approach.

SUBJECT : SCIENCE

SUBJECT : PHYSICS

1. **Reflection of Light:** Reflection of light at curved surfaces, Images formed by spherical mirrors, Centre of curvature, Principle axis, Principle focus, Focal length, Mirror formula (derivation not required) and Magnification.
2. **Refraction of Light:** Laws of refraction, Refractive index, Refraction of light by spherical lens, Image formed by spherical lenses, Lens formula (derivation not required), Magnification and Power of lens.
3. **Human Eye and Colourful World:** Functioning of a lens in human eye, Defects of vision and their corrections, Applications of spherical mirrors and lenses, Refraction of light through a prism, dispersion of light, Scattering of light and Application in daily life.

SUBJECT : CHEMISTRY

1. **Carbon compounds :** Covalent bonding in carbon compounds, Versatile nature of carbon, Homologous series, Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), Difference between saturated hydrocarbons and unsaturated hydrocarbons, Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction), Ethanol and Ethanoic acid (only properties and uses), Soaps and detergents.
2. **Periodic classification of elements :** Need for classification, Modern Periodic table, Gradation in Properties, Valency, Atomic number, Metallic and non-metallic properties.

SUBJECT : BIOLOGY

1. **How do Organism Reproduce ? :** The importance of variations, Modes of reproduction used by single celled organisms, (Fission, Regeneration, Budding), Vegetative propagation, Spore formation, Sexual reproduction in flowering plants, Reproduction in human beings(Male & Female reproductive systems, What happens when egg is not fertilized) and Reproductive health.
2. **Heredity & Evolution :** Accumulation of variation during reproduction, Heredity, Mendel's contribution (Laws & Crosses), How do traits get expressed?, Sex determination, Evolution, Acquired & inherited traits, Speciation, Evolution & classification, Tracing evolutionary relationship, Fossil, Evolution by stages and Human evolution.



DELHI PUBLIC SCHOOL (Aligarh / Civil Lines)
SYLLABUS FOR ADMISSION / INTERACTION FOR CLASS XI
STREAM – PCB

SUBJECT : ENGLISH

Section A (Reading) : Unseen Poems and Passages.

Section B (Writing Skills) : Biographical Sketch, Email, Informal & Formal Letters, Description (Place, Process, Event, Object) Data Interpretation, Dialogue writing, Story writing, Diary entry, Article, Speech, Report writing, Debate, Notice and Message.

Section C (Grammar) : Tenses (Verb Forms), Determiners, Editing, Omission, Subject verb agreement , Reported Speech(Narration), Sentence reordering, Conditionals, Connectors, Modals, Active & Passive Voice (News headlines & process completion), Comparison, Non finites, Relatives, Prepositions, Avoiding Repetition and Nominalization.

SUBJECT : SCIENCE

SUBJECT : PHYSICS

1. **Reflection of Light:** Reflection of light at curved surfaces, Images formed by spherical mirrors, Centre of curvature, Principle axis, Principle focus, Focal length, Mirror formula (derivation not required) and Magnification.
2. **Refraction of Light:** Laws of refraction, Refractive index, Refraction of light by spherical lens, Image formed by spherical lenses, Lens formula (derivation not required), Magnification and Power of lens.
3. **Human Eye and Colourful World:** Functioning of a lens in human eye, Defects of vision and their corrections, Applications of spherical mirrors and lenses, Refraction of light through a prism, dispersion of light, Scattering of light and Application in daily life.

SUBJECT : CHEMISTRY

1. **Carbon compounds :** Covalent bonding in carbon compounds, Versatile nature of carbon, Homologous series, Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), Difference between saturated hydrocarbons and unsaturated hydrocarbons, Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction), Ethanol and Ethanoic acid (only properties and uses), Soaps and detergents.
2. **Periodic classification of elements :** Need for classification, Modern Periodic table, Gradation in Properties, Valency, Atomic number, Metallic and non-metallic properties.

SUBJECT : BIOLOGY

1. **How do Organism Reproduce ? :** The importance of variations, Modes of reproduction used by single celled organisms, (Fission, Regeneration, Budding), Vegetative propagation, Spore formation, Sexual reproduction in flowering plants, Reproduction in human beings(Male & Female reproductive systems, What happens when egg is not fertilized) and Reproductive health.
2. **Heredity & Evolution :** Accumulation of variation during reproduction, Heredity, Mendel's contribution (Laws & Crosses), How do traits get expressed?, Sex determination, Evolution, Acquired & inherited traits, Speciation, Evolution & classification, Tracing evolutionary relationship, Fossil, Evolution by stages and Human evolution.



DELHI PUBLIC SCHOOL (Aligarh / Civil Lines)

SYLLABUS FOR ADMISSION / INTERACTION FOR CLASS XI

STREAM - COMMERCE WITH MATHEMATICS

SUBJECT : ENGLISH

Section A (Reading) : Unseen Poems and Passages.

Section B (Writing Skills) : Biographical Sketch, Email, Informal & Formal Letters, Description (Place, Process, Event, Object) Data Interpretation, Dialogue writing, Story writing, Diary entry, Article, Speech, Report writing, Debate, Notice and Message.

Section C (Grammar) : Tenses (Verb Forms), Determiners, Editing, Omission, Subject verb agreement, Reported Speech(Narration), Sentence reordering, Conditionals, Connectors, Modals, Active & Passive Voice (News headlines & process completion), Comparison, Non finites, Relatives, Prepositions, Avoiding Repetition and Nominalization.

SUBJECT : MATHEMATICS

1. **Quadratic Equation:-** Graphical & Algebraic methods to solve a pair of linear equations, nature of a roots etc.
2. **Arithmetic Progression:-** n^{th} term of an A.P., Sum of first 'n' terms of an A.P.
3. **Coordinate Geometry:-** Distance formula, Section formula, Area of triangle etc.
4. **Applications of Trigonometry:-** Heights and Distance.
5. **Circles:-** Tangents to a circle, Number of tangents from a point on a circle.
6. **Areas related to circles:-** Perimeter and area of a circle, Areas of sector and segment of a circle, Areas of combinations of plane figures.
7. **Surface Areas and Volumes:-** Surface areas of combination of solids, volume of a combination of solids, conversion of solid from one shape to another, frustum of cone.
8. **Probability:-** Probability-A Theoretical approach.

SUBJECT : SOCIAL SCIENCE

SUBJECT: HISTORY/CIVICS

HISTORY:

1. **Nationalism in India:** The First World War, Khilafat and Non-cooperation, differing strands within the movement, towards civil disobedience. The limits of Civil Disobedience and the sense of collective belonging.
2. **Nationalism in Europe:** The French revolution and the idea of the nation, liberal nationalism, Age of revolution : 1830-1848, The making of Germany and Italy, Nationalism & imperialism.

OR

Nationalism in Indo-China: Emerging from the shadow of China, The dilemma of colonial education, Hygiene, Disease & every day resistance, Religion & Anti Colonialism and the vision of modernization.

CIVICS :

1. **Popular struggle and movements:** The communist movement, Popular struggles in Nepal & Bolivia, Mobilization & Organization, Pressure groups and movements. Is their influence healthy?
2. **Political party:** Meaning, functions, Necessity, National Political Parties, State parties, Challenges to political parties.
3. **Outcomes of democracy:** Outcomes of democracy, assessment of outcomes, Accountable Government, Economic Growth & development, accommodation of social diversity, Dignity & freedom of citizens.
4. **Challenges to democracy:** Thinking about challenges, Thinking about political reforms and redefining democracy.

SUBJECT : GEOGRAPHY

1. **Minerals and Energy Resources-** Definition, Mode of Occurrence, Ferrous Minerals & Non Ferrous Minerals, conservation of Minerals, Conventional & non conventional energy sources, Conservation of energy resources.
2. **Manufacturing Industries-** Classification of Industries, Agro based industries, Mineral based industries, Chemical industry, IT industry, Industrial pollution & environmental degradation.
3. **Life lines of National Economy-** Classification of Roadways, Railways, airways, Pipelines, Water ways, Major sea ports, Communication and Tourism.

SUBJECT : ECONOMICS

1. **Chapter Name** - Money and credit, modern forms of money, currency deposit with bank loan. Activities of banks , credit situations, terms of credit, variety of credit arrangements, loans cooperatives, formal and informal credit, self help group for the poor and Grameen bank.
2. **Globalization and the Indian economy-Production-** Across countries inter linking production, foreign trade and integration of markets.
Factors of Globalization- Technology, Liberalization, Foreign trade and investment, World Trade Organization, impact of globalization, Steps to attract foreign investment, Rising competition, Uncertain employment and the struggle for a fair globalization.
3. **Consume Rights- The consumer in the market place** - Consumer movement and international safety, Information about goods and services, Where should consumer go to get justice. Learning to become well informed consumers. ISI & Agmark and taking the consumer movement forward.



DELHI PUBLIC SCHOOL ALIGARH

SYLLABUS FOR ADMISSION / INTERACTION FOR CLASS XI

STREAM - COMMERCE WITHOUT MATHEMATICS and HUMANITIES SUBJECT : ENGLISH

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