

# English

Session: 2023-24

Books used:

FIRST FLIGHT - by NCERT

FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER) - By NCERT

TERM    UNIT    LANGUAGE    LITERATURE

                  WRITING        GRAMMAR        LITERATURE

READER

(First Flight)

SUPPLEMENTARY

READER

(Footprints Without

Feet)

PA-1    1        Formal Letter    Tenses    A Letter to God (P)    A Triumph of Surgery

Dust of Snow (V)

Subject Verb Concord

PA- 1 EXAMINATION    Nelson Mandela - Long    The Thief's Story

Walk to Freedom (P)

Fire and Ice (V)

Two Stories About Flying (P)

PA-1 EXAMINATION

PA- 2    2        Formal Letter    Modals From the Diary of

Anne

Frank (P)        The Midnight Visitor

Determiners

How to Tell Wild Animals (V)

3        Formal Letter    Reported Speech        Glimpses of India (P)

A Question of trust

PA-2 EXAMINATION

PA-3 UNIT LANGUAGE LITERATURE  
 WRITING GRAMMAR LITERATURE

READER

(First Flight)

SUPPLEMENTARY

READER

(Footprints Without  
 Feet)

5 continued Determiners Trees (V) The Making of a Scientist  
 Fog (V)

Amanda(V)

Madam ride the Bus(P)

Mijbil the otter(P) The Necklace

PA-3 EXAMINATION

PRE- BOARD 6 Analytical

Paragraph Modals The Sermon at Benares (P)

7 continued Subject Verb The Tale of  
 Custard the

Dragon (V) Bholi

Concord For Anne Gregory (V)

8 Formal Letter Reported The Proposal (P)

[Including PA-1 TO PA-3] The Book That Saved the Earth.

[Including PA-1 TO PA-3]

Speech

Mathematics

TERM UNIT TOPIC SUB - TOPIC ACTIVITY

PA-1 1. Real Numbers Fundamental Theorem of Arithmetic, Proof of irrationality

2 Polynomials Zeroes of a Polynomial, Relationship between Zeroes and coefficients of quadratic polynomial

3 Probability Probability - A Theoretical Approach

4 Coordinate Geometry Concepts of coordinate geometry, graphs of linear equations. Distance Formula, Section Formula(internal division)

PA-2 5 Triangles Similar Figures, Similarity of Triangles and its criteria Activity on Similarity

6 Pair of Linear Equations in Two variables Graphical Method of Solution of a pair of Linear equations, consistency/ inconsistency. Algebraic Methods (Substitution Method, Elimination Method) Simple situational problems. Conditions of Consistency and Inconsistency of a pair of Linear Equations in Two Variables

7 Arithmetic Progression Identification of a series as A.P., nth term of an A.P., Sum of first n terms of an A.P. and their application in solving daily life problem

8 Trigonometry Introduction, Trigonometric identities, Height & Distance.  
9 Quadratic Equation Standard form of quadratic equation. Solution of quadratic Equations (only real roots) by Factorisation and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.

PA-3 10 Area Related to Circles Finding area and perimeter of Shaded portions using Sector Formula, Segment formula.

11 Surface Area & Volumes Surface Area and Volume of combination of figures - cube, cuboid, right circular cylinder / cones, sphere, hemisphere.

12 Circles Tangent to a circle at, point of contact

13 Statistics Mean Median and Mode of Group Data.

#### PRE- BOARD

Pre-Board : Entire Syllabus as prescribed by CBSE

#### PHYSICS

TERM	UNIT	TOPIC	SUB-TOPIC	PRACTICALS
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PA-1	Light	Reflection of light at curved surface; terms related to spherical mirrors; Images formed by spherical mirrors
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PA-1	Mirror formula(derivation not required); Magnification; Numerical based on the above topics; Application of mirrors.Laws of refraction;
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Refractive index To determine the focal length of a concave mirror, by obtaining the image of a distant object;

PA-1	Applications of refraction; refraction of light by spherical lenses; Lens formula (derivation not required); Magnification; To determine the focal length of a convex lens, by obtaining the image of a distant object.
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PA-1 Power of a lens; Numerical of lens formula and magnification; Application of lenses. To trace the path of a ray of light through a rectangular glass slab for different angles of incidences; Measure the angle of incidence, angle of refraction, angle of emergence and interpret the results;

2 Human Eye and colorful World Structure of human eye; Functioning of lens in human eye; Defects of vision and remedies.

PA-2 Human Eye and colorful world Dispersion of light by glass prism; Rainbow formation; Atmospheric refraction, twinkling of stars. To trace the path of a light ray through a glass prism

PA-2 Tyndall effect; Application of scattering(excluding colour of the sun at sunrise and sunset)

3 Electricity Electric current & circuit; Potential, Potential difference, Ohm's law; Resistance, factors on which resistance depends; series and Parallel combination of resistors; Numericals based on resistors and combination of resistors. To study the dependence of Potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V & I.

4 Electricity Heating effect of electric current; Electric power; Inter-relation between P, V, I and R. Numericals based on the topic. To determine the equivalent resistance of two resistors when connected in series; determine the equivalent resistance of two resistors when connected in parallel.

PA-3 5 Magnetic Effects of Electric Current Magnetic field lines;

Oersted's experiment. Magnetic field due to current carrying wire, Coil and Solenoid; Force on current carrying conductor. Fleming's Left hand rule; Alternating Current, Direct Current

PA-3 6. Domestic wiring system; Importance of fuse; Earthing; Overload; Shortcircuit.

January Pre-board

Pre-Board : Entire Syllabus as prescribed by CBSE

## CHEMISTRY

TERM	UNIT	TOPIC	SUB TOPIC	PRACTICAL EXPERIMENT
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PA-1	1	Chemical		
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Reactions and

Equations Chemical reaction – definition, characteristics of chemical reaction with examples.

Writing a chemical equation, skeletal equation, balanced chemical equation, balancing of chemical equations. Types of chemical reactions - combination, exothermic and endothermic reactions,

decomposition, displacement, double displacement. To perform and observe different types of chemical reactions.

PA-1 1 Chemical

Reactions and

Equations Types of chemical reactions

(continued) - oxidation and reduction.

Corrosion, rancidity.

2 Acids, Bases and Salts Introduction to acids, bases, indicators. Understanding the chemical properties of acids and bases. To study the properties of acids and bases.

PA-2 PA-1 EXAMINATION

2 Acids, Bases and Salts What do all acids and all bases have in common? Dilution of acids and bases.

Strength of acids and basic solutions.

Importance of pH in everyday life. To find the pH of sample solutions by using pH paper/universal indicator.

PA-2 2 Acids, Bases and Salts Salts - family of salts, pH of salts, chemicals from common salt, chlor-alkali process, bleaching powder, baking soda, washing soda, water of crystallization in salts, Plaster of Paris.

3 Metals and Non-metals Introduction, physical properties of metals and non-metals.

Chemical properties of metals

(reactions), the reactivity series.

How do metals and non-metals react?

Properties of ionic compounds. To study the reactivity of metals using the metals and their salt solutions.

TERM UNIT TOPIC SUB TOPIC PRACTICAL EXPERIMENT

PA-2 3 Metals and Non-metals Occurrence of metals, extraction of metals, refining of metals. Corrosion of metals and its prevention, alloys.

4 Carbon and its

Compounds Importance of carbon, catenation, bonding in carbon - the covalent bond, versatile nature of carbon.

Saturated and Unsaturated Carbon Compounds, chains, branches and rings present in carbon compounds.

#### PA-2 EXAMINATION

PA-3 4

Carbon and its

Compounds Homologous series, functional groups, hydrocarbons and isomerism.  
Nomenclature of Carbon Compounds.

PA-3 4. Carbon and its Compounds Chemical properties of carbon compound (reactions).

Some important carbon compounds - Ethanol and Ethanoic acid.

Soaps and detergents. To study the properties of acetic acid.

To study the comparative cleaning capacity of a sample of soap in soft and hard water.

PRE BOARD ( Pre-Board : Entire Syllabus as prescribed by CBSE)

#### BIOLOGY

TERM	UNIT	TOPIC	SUBTOPIC	PRACTICAL
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PA-1	1	Life		
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Processes			•	What are life processes
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- Autotrophic Nutrition

- Heterotrophic Nutrition 1. To prepare a temporary mount of a leaf peel to show stomata.

PA-1		Life		
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Processes			•	Respiration
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#### PA-1 EXAMINATION

PA-2		Life		
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Processes			•	Transportation
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- Excretion 2. To show experimentally that CO<sub>2</sub> is given out during respiration

[animals & plants

(A)]

3. Reproduction: Budding in Yeast and Binary fission in Amoeba.

PA-2	2	Control & Coordination	•	Animals - Nervous system
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- Coordination in plants
  - Control & Coordination
  - Hormones in animals
- 3 How do organisms reproduce themselves?
  - Do organisms create exact copies of themselves?
- Modes of reproduction used by single organisms

#### PA-2 EXAMINATION

PA-3

3

- How do organisms reproduce
  - Sexual reproduction in plants
- Sexual reproduction in humans
- 4. To identify the different parts of an embryo of a dicot seed (gram).

PA-3 4 Heredity & Evolution • Accumulation of variation during reproduction

TERM	UNIT	TOPIC	SUBTOPIC	PRACTICAL
PA-3		Heredity & Evolution		• Heredity
PA-3	5	Our Environment		• What happens when we add waste to the environment
				• Eco system- what are its components
				• How do our activities affect the environment

PREBOARD (Pre-Board : Entire Syllabus as prescribed by CBSE)

#### ECONOMICS

TERM	UNIT	TOPICS	SUB TOPICS
PA-1	1	DEVELOPMENT	• What Development Promises -
			Different people different goals
			• Income and other goals
			• National Development
			• How to compare different countries or states?
			• Income and other criteria

- Public Facilities
  - Sustainability of development
- 2      SECTORS OF INDIAN ECONOMY •      Sectors of Economic Activities

- Comparing the three sectors
- Primary, Secondary and Tertiary Sectors in India

PA- 1 EXAMINATION

PA-2 3      SECTORS OF INDIAN ECONOMY (Cont.) •      Division of sectors as organized and unorganized.

- Sectors in terms of ownership:

Public and Private Sectors

PA-2 4      MONEY AND CREDIT •      Money as a medium of exchange

- Modern forms of money.
- Loan activities of Banks.
- Two different credit situations.
- Terms of credit.
- Formal sector credit in India.
- Self Help Groups for the Poor

TERM      UNIT      TOPICS      SUB TOPICS

PA-2 6      GLOBALISATION AND THE INDIAN ECONOMY •      Production across countries.

- Interlinking production across countries.
- Foreign Trade and integration of Markets.
- What is globalization?
- Factors that have enabled Globalisation.

PA-2 EXAMINATION

PA-3 6      GLOBALISATION      AND

THE INDIAN ECONOMY(Contd.) •      World Trade Organisation.

- Impact of Globalization on India.
- The Struggle for a fair Globalisation



PA-3 7

## CONSUMER RIGHTS

Note: Chapter 5

'Consumer Rights' to be done as Project Work. Gets familiarized with the rights and duties as a consumer; and legal measures available to protect from being exploited in markets.

Every student has to compulsorily undertake the project on Consumer

Rights/Awareness

PA-3 EXAMINATION

PRE-BOARD ( Pre-Board : Entire Syllabus as prescribed by CBSE)

## GEOGRAPHY

TERM	UNIT	TOPICS/ CHAPTERS	SUB TOPICS
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PA-1	1	RESOURCE AND DEVELOPMENT •	Concept
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- Development of Resources
- Resource Planning - Resource Planning in India, Conservation of Resources
- Land Resources
- Land Utilization
- Land Use Pattern in India
- Land Degradation and Conservation Measures
- Soil as a Resource - Classification of

Soils, Soil Erosion and Soil Conservation

(excluding Box Information on State of

India's Environment)

PA-1	2	FOREST RESOURCES •	Conservation of forest and wildlife in India
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- Types and distribution of forests and wildlife resources
- Community and Conservation

PA-1 EXAMINATION

PA-2	3	WATER	
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RESOURCES

- Water Scarcity and The Need for Water Conservation and Management

- Multi-Purpose River Projects and Integrated Water Resources Management
- Rainwater Harvesting

PA-2 4 AGRICULTURE • Types of Farming - Primitive

Subsistence, Intensive Subsistence, Commercial

- Cropping Pattern - Major Crops, Food

Crops other than Grains, Non-Food Crops

- Technological and Institutional Reforms
- Food Security (excluding impact of globalization on agriculture)

TERM UNIT TOPICS/ CHAPTERS SUB TOPICS

PA-2 5 MINERALS

AND ENERGY

RESOURCES • What is a mineral?

- Mode of occurrence of Minerals - Where are these minerals found?

- Ferrous Minerals, Non-Ferrous

Minerals, Non-Metallic Minerals, Rock Minerals

- Conservation of Minerals
- Energy Resources - Conventional

Sources of Energy, Non-Conventional Sources of Energy

- Conservation of Energy Resources

PA-2 6 MANUFACTURING INDUSTRIES • Importance of Manufacturing -

Industrial Location (excluding Industry Market Linkage),

- Agro based Industry (excluding Cotton

Textiles, Jute Textiles, Sugar Industry),

- Mineral based Industries (excluding Iron Steel Industry, Cement Industry)

PA-2 EXAMINATION

PA-36 MANUFACTURING INDUSTRIES • Industrial pollution and environmental degradation.

- Control of Environmental Degradation

PA-3 7 LIFELINES

OF NATIONAL ECONOMY • Roadways

- Railways
- Pipelines
- Waterways
- Major Seaports
- Airways
- Communication
- International Trade
- Tourism as a Trade

REVISION

PA-3 EXAMINATION

PRE-BOARD ( Pre-Board : Entire Syllabus as prescribed by CBSE)

HISTORY

TERM	UNIT	HISTORY TOPICS	SUB-TOPICS
PA-1 3	Nationalism in Europe	The French Revolution and the Idea of Nation	
		The Making of Nationalism in Europe	
		The Age of Revolutions: 1830-1848	
		The Making of Germany and Italy	
		PA-1 EXAMINATION	
PA-1 4	Nationalism in India	Visualising the Nation	
		Nationalism and Imperialism	
PA-1	The First World War, Khilafat and Non-Cooperation		
		Differing Strands within the Movement	
		Towards Civil Disobedience	
		The Sense of Collective Belonging	
		PA-2 EXAMINATION	
PA-2 6	Print Culture and the Modern World	The First Printed Books	

Print Comes to Europe  
 The Print Revolution and its Impact  
 The Reading Mania  
 The 19th Century  
 India and the world of Print  
 Religious Reforms and Public Debates  
 New Forms of Publication  
 Print and Censorship

PA-3 8                      The Age of Industrialisation      Before the Industrial Revolution  
 Hand Labour and Steam Power  
 Industrialisation in the colonies  
 Factories come up  
 The Peculiarities of Industrial Growth  
 Market for Goods

9      The Making of a Global World    The Pre Modern World  
 The Nineteenth Century (1815-1914)  
 The Inter War Economy  
 Rebuilding a World Economy: The Post-war era

PA-3 EXAMINATION

PRE- BOARD EXAMINATION ( Pre-Board : Entire Syllabus as prescribed by CBSE)

POLITICAL SCIENCE

TERM	UNIT	TOPICS	SUB-TOPICS
PA-1	1	Power Sharing	Case Studies of Belgium and Sri Lanka  Why Power Sharing is Desirable?  Forms of Power Sharing
	2	Federalism	What is Federalism?  What makes India a Federal Country?  How is Federalism practiced?

Decentralisation in India

PA-1 EXAMINATION

PA-2 5 Gender, Religion and Caste Gender and Politics  
Religion, Communalism and Politics  
Caste and Politics

PA-2 7 Political Parties Why do we need Political Parties?  
How many Parties should we have?  
National Political Parties  
State Parties  
Challenges to Political Parties  
How can Parties be reformed?

PA-2 EXAMINATION

PA-3 10 Outcomes of Democracy How do we assess democracy's outcome?  
Accountable, responsive and legitimate government  
Economic Growth and Development  
Reduction of Inequality and Poverty  
Accommodation of social diversity Dignity and freedom of the citizens

PA-3 EXAMINATION

PRE-BOARD EXAMINATION ( Pre-Board : Entire Syllabus as prescribed by CBSE)

HINDI 2nd Language

TERM LANGUAGE LITERATURE

PA-1 RACHNA KAI ADHAR PAR VAKYA BHED/ VACHAYA NETAJI KA CHASMA/  
SURDAS

MATA KA ANCHAL

PA-1 EXAMINATION

PA-2 PAD PARICHAY, RAS( FIVE RAS) BAL GOBIN BHAGAT/ LUCKNAWI ANDAJ

PA-2 ALANKAR EK KHANI YAH BHI, RAM LAXMAN PARSURAM SAMBAD

PA-2 PATRA LEKHAN, ANUCHED LEKHAN, VIGYAPAN LEKHAN

SANDESH LEKHAN. YEH DANTURIT MUSKAN, ATMA KATHYA

PA-2 APATHIT GADYANSH/ PADYANSH

SANA SANA HATH JORI

PA-2 EXAMINATION

PA-3 RACHNA KAI ADHAR PAR VAKYA BHED

PAD PARICHAY, ALANKAR NOBAT KHANE MEIN IBADAT, SANSKRITI, SANGATKAR

PA-3 SANDESH LEKHAN, VIGYAPAN LEKHAN, ANUCHED LEKHAN MEIN KYUN LIKHTA HUN

PA-3

PA-3 EXAMINATION

PRE BOARD

BENGALI 2nd Language

MONTH UNIT TOPIC

PA-1 1,2 Gyanchokshu (prose), Tin paharer kole (poem) POSTMASTER (supplementary Reader),

PA-1 3,4 GRAMMAR- vakyo pariwartan, sandhi: (vyanjan), samas( dwardwa)

PA-1 EXAMINATION

PA-2 6 Prose-Alobabu, Bahurupi Poem- Ekakare, Astrer birudhhe Gan

PA-2 7 Supplimentary Reader: Kabuliwala

PA-2 8 Grammar :Sandhi (Bisargo) ,Samas (Karmadharay), Letter writing (Editorial) , Paragraph writing

ASL & Project

PA-2 EXAMINATION

PA-3 9 Prose- Adal Bodol , Poem- Aye Aro Bandhe Bendhe Thaki

10 Supplimentary Reader – DaanPratidaan

PA-3 11 Grammar – Samas (Abyayeebhab), Sadhu Chalit bhashaye Rupantar

PA-4 12 ASL & Project

### PA-3 EXAMINATION

Pre Board Examinations