

MOUNT SAINT MARY'S SCHOOL, DELHI CANTT
CLASS X – ENGLISH TERM WISE SYLLABUS 2023 – 24

Term I

PRE TERM I

A. Reading Skills – Discursive passage (400-450 words)

B. Writing Skills – Letter based on given situation.

C. Grammar – Gap fillings, Editing and omissions based on Tenses, Modals, Determiners, Subject Verb Concord and Reported Speech

D. Literature –

FIRST FLIGHT

1. A Letter to God

2. Dust of Snow

3. Fire and Ice

FOOTPRINTS WITHOUT FEET

1. A Triumph of Surgery

HALF YEARLY EXAMS

A. Reading Skills – Discursive passage (400-450 words), Case based passage (300-350 words)

B. Writing Skills – Formal Letter based on given situation. (120 – 150 words)- Analytical Paragraph.

C. Grammar –

- Tenses
- Modals
- Determiners
- Active Passive Voice
- Subject Verb Concord
- Reported Speech
- Commands and Requests
- Statements
- Questions

D. Literature

FIRST FLIGHT:

Prose

1. A Letter to God

2. Nelson Mandela – Long Walk to Freedom

3. Two Stories About Flying

4. From the Diary of Anne Frank

5. Glimpses of India

Poems

1. Dust of Snow

2. Fire and Ice

3. A Tiger in the Zoo

4. How to Tell Wild Animals

5. The Ball Poem

FOOTPRINTS WITHOUT FEET

1. A Triumph of Surgery

2. The Thief's Story

3. The Midnight Visitor

4. A Question of Trust

5. Footprints Without Feet

Words and Expressions – II (Workbook for Class X) – Units 1 to 4

Term II

PRETERM II

A. Reading Skills – Case based passage (300-350 words)

B. Writing Skills – Analytical Paragraph on a given Map/Chart/Graph/Cues.

C. Grammar – Gap fillings/editing/omissions based on Tenses, Modals, Subject – verb Concord, Reported Speech.

D. Literature

FIRST FLIGHT:

1. Mijbil the Otter

2. Amanda

FOOTPRINTS WITHOUT FEET

1. The Making of a Scientist

PREBOARD I

A. Reading Skills – Discursive passage (400-450 words), Case based passage (300-350 words)

B. Writing Skills – Letter and Analytical Paragraph.

C. Grammar - Tenses

Modals

Determiners

Subject Verb Concord

Reported Speech

Commands and Requests Statements

Questions

D. Literature

FIRST FLIGHT

Prose

1. A Letter to God

2. Nelson Mandela – Long Walk to Freedom

3. Two Stories About Flying

4. From the Diary of Anne Frank

5. Glimpses of India

6. Mijbil the Otter

Poem

1. Fire and Ice

2. A Tiger in the Zoo

3. How to Tell Wild Animals

4. The Ball Poem

5. Amanda!

6. The Tale of Custard the Dragon

7. For Anne Gregory

FOOTPRINTS WITHOUT FEET

1. A Triumph of Surgery

2. The Thief's Story

3. The Midnight Visitor

4. A Question of Trust

5. Footprints Without Feet

6. The Making of a Scientist

7. The Necklace

PREBOARD II

A. Reading Skills – Discursive passage (400-450 words), Case based passage (300-350 words)

B. Writing Skills – Letter and Analytical Paragraph.

C. Grammar - Tenses

Modals

Determiners

Subject Verb Concord

Reported Speech

Commands and Requests Statements

Questions

D. Literature

FIRST FLIGHT

Prose

1. From the Diary of Anne Frank

2. Glimpses of India

3. Mijbil the Otter

4. Madam Rides the Bus

5. The Sermon at Benares

6. The Proposal (Play)

Poem

1. How to Tell Wild Animals

2. The Ball Poem

3. Amanda!

4. The Trees

5. Fog

6. The Tale of Custard the Dragon

7. For Anne Gregory

FOOTPRINTS WITHOUT FEET

1. The Midnight Visitor
2. A Question of Trust
3. Footprints Without Feet
4. The Making of a Scientist
5. The Necklace
6. Bholi
7. The Book that Saved the Earth

PREBOARD III

A. Reading Skills – Discursive passage (400-450 words), Case based passage (300-350 words)

B. Writing Skills – Letter and Analytical Paragraph.

C. Grammar –

- Tenses
- Modals
- Determiners
- Subject Verb Concord
- Reported Speech
- Commands and Requests Statements
- Questions

D. Literature

FIRST FLIGHT

Prose

1. A Letter to God
2. Nelson Mandela – Long Walk to Freedom
3. Two Stories About Flying
4. From the Diary of Anne Frank
5. Glimpses of India
6. Mijbil the Otter
7. Madam Rides the Bus
8. The Sermon at Benares
9. The Proposal (Play)

Poem

1. Dust of Snow
2. Fire and Ice
3. A Tiger in the Zoo
4. How to Tell Wild Animals
5. The Ball Poem
6. Amanda!
7. The Trees
8. Fog
9. The Tale of Custard the Dragon
10. For Anne Gregory

FOOTPRINTS WITHOUT FEET

1. A Triumph of Surgery
2. The Thief's Story
3. The Midnight Visitor
4. A Question of Trust
5. Footprints Without Feet
6. The Making of a Scientist
7. The Necklace
8. Bholi
9. The Book that Saved the Earth

Words and Expressions – II (Workbook for Class X) – Units 1 to 4 & 7 to 11.

Internal Assessment for both the Terms (Based on the CBSE directions)

A. Subject Enrichment Activities – Assessment of Speaking and Listening Skills as class work and homework assignment.

B. Art Integrated Projects based on activities like Role Play, Skit, Dramatization etc.

C. Portfolio and Notebooks

D. Assignments and worksheets as multiple assessments – Idioms, class tests and case based comprehension.

हिंदी पाठ्यक्रम
कक्षा दसवीं
2023 - 2024

प्री टर्म - 1

स्पर्श - गद्य - बड़े भाई साहब, तताँरा - वामीरो
पद्य - कबीर की साखी
संचयन - हरिहर काका

व्याकरण - विज्ञापन पदबंध, संज्ञा, सर्वनाम, मुहावरे, सूचना, पत्र, समास - द्वंद्व, द्विगु, बहुव्रीहि, कर्मधारय

अर्धवार्षिक परीक्षा

स्पर्श - गद्य - अब कहाँ दूसरे के दुख से दुखी होने वाले बड़े भाई साहब, तताँरा - वामीरो
पद्य - तोप, कबीर की साखी, मीरा के पद
संचयन - सपनों के से दिन

व्याकरण - वाक्य रचना, मुहावरे, विज्ञापन, सूचना, पत्र औपचारिक समास पदबंध, अनुच्छेद, अपठित गद्यांश, पठित पद्यांश, लघुकथा, ई-मेल लेखन, पठित गद्यांश

प्री - बोर्ड - 1

स्पर्श - गद्य - पतझर में टूटी पत्तियाँ, तीसरी कसम के शिल्पकार शैलेंद्र
पद्य - पर्वत प्रदेश में पावस, कर चले हम फिदा
संचयन - टोपी शुक्ला

व्याकरण - वाक्य रचना, मुहावरे, विज्ञापन, पत्र, लघुकथा, अपठित गद्यांश

स्पर्श - गद्य - कारतूस

पद्य - मनुष्यता, आत्मत्राण

संपूर्ण पाठ्यक्रम

प्री - बोर्ड - 2

संपूर्ण पाठ्यक्रम

नोट अरु परर छ। म। श। ऋ दुदिएलनिएरु फररुद तेपल्लिएरु चरु वरु। ददरुद।

MOUNT ST. MARY'S SCHOOL
CLASS - X
SOCIAL SCIENCE SYLLABUS (2023-24)
(CODE-087)

HISTORY

Section 1: Events and Processes

1. The Rise of Nationalism in Europe
2. Nationalism in India (Includes Map Work)

Section 2: Livelihoods, Economies and Societies

3. The Making of a Global World
4. The Age of Industrialization

Section-3: Everyday Life, Culture and Politics.

5. Print Culture and the Modern World

GEOGRAPHY

1. Resources and Development

2. Forest and Wildlife Resources
3. Water Resources
4. Agriculture
5. Minerals and Energy Resources
6. Manufacturing Industries
7. Lifelines of National Economy

NOTE: Map skills for all the above-mentioned chapters will be done.

POLITICAL SCIENCE

1. Power Sharing
2. Federalism
3. Gender, Religion and Caste
4. Political Parties
5. Outcomes of Democracy

ECONOMICS

1. Development
2. Sectors of the Indian Economy
3. Money and Credit
4. Globalisation and the Indian Economy
5. Consumer Rights

(PROJECT WORK) Every student has to compulsorily undertake **any one project** on the following topics:

- **CONSUMER AWARENESS**
- OR**
- **SOCIAL ISSUES**
- OR**
- **SUSTAINABLE DEVELOPMENT**

EXAMINATION SYLLABUS

Term -I (Pre-Term 1)

Ch -2: Nationalism in India (His)

Ch -1: Resources and Development (Geo)

Ch- 1: Development (Eco)

Half Yearly Examination

HISTORY

Ch-1: The Rise of Nationalism in Europe

Ch-2: Nationalism in India

Ch-3: The Making of a Global World

GEOGRAPHY

Ch-2 Forest and Wildlife

Ch-3 Water Resources

Ch-4 Agriculture

Ch-5 Minerals

POLITICAL SCIENCE

Ch-1 Power Sharing

Ch-2 Federalism

ECONOMICS

Ch-1 Development

Ch-2 Sectors of Indian economy

Ch-3 Money and Credit

Pre-Board- I

Ch-1: The Rise of Nationalism in Europe (His)

Ch 3: The Making of a Global World (His)

Ch-1 Power Sharing (Pol.Sc)

Ch-2 Federalism (Pol.Sc)

Ch 4: Gender, Religion and Caste (Pol.Sc)

Ch-4 Agriculture (Geo)

Ch-5 Minerals and Energy Resources (Geo)

Ch-6 Manufacturing Industries (Geo)
Ch-7 Lifelines of National Economy (Geo)
Ch-3 Money and Credit (Eco)
Ch- 4 Globalisation and the Indian Economy (Eco)

Pre-Board- II

Ch-2 Nationalism in India (His)
Ch-5 Print Culture and the Modern World (His)
Ch-6 Political Parties (Pol Sc)
Ch-7 Outcomes of Democracy (Pol Sc)
Ch-1 Resources and Development (Geo)
Ch-2 Forest and Wildlife Resources (Geo)
Ch-3 Water Resources (Geo)
Ch-7 Lifelines of National Economy (Geo)
Ch-1 Development (Eco)
Ch-2 Sectors of the Indian Economy (Eco)

Pre-Board- III

Full Syllabus of Social Science

Class 10- Artificial Intelligence - Syllabus- 2023-24

Term-1 & Half Yearly Examination

Part A

Unit 1- Communication Skills II
Unit 2- Self Management Skills II
Unit-3-ICT Skills

Part B

Unit 1: Introduction to Artificial Intelligence
Unit-2:AI Project Cycle
Unit-3:Advance Python
Unit-4:Data Science
Unit-6:NLP

Practical Examination

Unit 3: Advanced Python
Data Visualisation

Term -2

Part A

Unit 4 Entrepreneurial Skills II
Unit 5-Green Skills -II

Part B

Unit -5: Computer Vision
Unit-4: Evaluation

PreBoard-1:

NLP
Term 2 Syllabus

Preboard-2 :

Term 1 Syllabus.

PreBoard-3

Full Syllabus

Practical Examination

Advanced Python
Data Science
Computer Vision



MOUNT ST. MARY'S SCHOOL, DELHI CANTT.

SYLLABUS (2023-24)

CLASS - X

SCIENCE

PHYSICS

CHAPTER NO.	TOPIC
9	LIGHT-REFLECTION AND REFRACTION
10	HUMAN EYE AND COLOURFUL WORLD
11	ELECTRICITY
12	MAGNETIC EFFECTS OF ELECTRIC CURRENT

SYLLABUS DISTRIBUTION

CYCLIC TEST - 1 : CHAPTER 9 (Only Reflection of light)

PRE-TERM – I (TERM 1): CHAPTER: 9 (Till Refractive Index (page 150))

CYCLIC TEST 2 (TERM 1): CHAPTER : 9 Light - reflection and refraction

FIRST TERM(SEPTEMBER): CHAPTERS: 9,10,11

PRE-BOARD-1 (NOVEMBER): CHAPTER 10, 11,12

PRE-BOARD-2 (DECEMBER):CHAPTER 9, 11, 12

PRE-BOARD 3 AND ANNUAL TERM: CHAPTERS: 9, 10, 11,12.(entire syllabus)

TOPICS:

Unit III: Natural Phenomena

CHAPTER : LIGHT-REFLECTION AND REFRACTION

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required),magnification.

Refraction; Laws of refraction, refractive index.

Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula(Derivation not required); Magnification. Power of a lens.

CHAPTER : HUMAN EYE AND COLOURFUL WORLD

Functioning of a lens in the 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, applications in daily life (excluding colour of the sun at sunrise and sunset).

Unit IV: Effects of Current

CHAPTER : ELECTRICITY

Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

CHAPTER : MAGNETIC EFFECTS OF ELECTRIC CURRENT

Magnetic effects of current : Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.

PRACTICALS:

1. Determination of the focal length of:

- (i) concave mirror
(ii) convex lens
by obtaining the image of a distant object.
- Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
 - Tracing the path of the rays of light through a glass prism.
 - Studying the dependence of potential difference(V) across a resistor on the current(I) passing through it and determine its resistance. Also plotting a graph between V and I.
 - Determination of the equivalent resistance of two resistors when connected in series and parallel.

CHEMISTRY

Theme: Materials

Unit I: Chemical Substances - Nature and Behaviour

S.No	Chapter No	Topic
1	1	Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.
2	2	Acids, bases and salts: Their definitions in terms of furnishing of H ⁺ and OH ⁻ ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.
3	3	Metals and nonmetals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.
4	4	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 hydro carbons 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.

SYLLABUS DISTRIBUTION:-

CYCLIC TEST -I:(Term I)Chapter 1:Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.

CYCLIC TEST -II:(Term I) Chapter 3: Metals and nonmetals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.

PRE-TERM-I:

Chapter 1: Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.

Chapter 3: Metals and nonmetals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.

FIRST TERM:

Chapter 1: Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction.

Chapter 2: Acids, bases and salts: Their definitions in terms of furnishing of H⁺ and OH⁻ ions,

properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium

Hydroxide, Bleaching

powder, Baking soda, Washing soda and Plaster of Paris.

Chapter 3: Metals and nonmetals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention

PRE BOARDS:

PRE-BOARD-1 (NOVEMBER): CHAPTER 1, 2 & 3.

PRE-BOARD-2 (DECEMBER): CHAPTER 2, 3 & 4.

PRE-BOARD 3

Chapter 1, 2, 3 & 4.

PRACTICALS

Practical should be conducted alongside the concepts taught in theory classes.

LIST OF EXPERIMENTS

1. Finding the pH of the following samples by using pH paper/universal indicator:

- (i) Dilute Hydrochloric Acid
- (ii) Dilute NaOH solution
- (iii) Dilute Ethanoic Acid solution
- (iv) Lemon juice
- (v) Water
- (vi) Dilute Hydrogen Carbonate solution

2. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with:

- a) Litmus solution (Blue/Red)
- b) Zinc metal
- c) Solid sodium carbonate

3. Performing and observing the following reactions and classifying them into:

- A. Combination reaction
- B. Decomposition reaction
- C. Displacement reaction
- D. Double displacement reaction

- (i) Action of water on quicklime
- (ii) Action of heat on ferrous sulphate crystals
- (iii) Iron nails kept in copper sulphate solution
- (iv) Reaction between sodium sulphate and barium chloride solutions

4. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:

- i) $\text{ZnSO}_4(\text{aq})$
- ii) $\text{FeSO}_4(\text{aq})$
- iii) $\text{CuSO}_4(\text{aq})$
- iv) $\text{Al}_2(\text{SO}_4)_3(\text{aq})$

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result

5. Study of the following properties of acetic acid (ethanoic acid):

- i) Odour
- ii) solubility in water
- iii) effect on litmus
- iv) reaction with Sodium Hydrogen Carbonate

6. Study of the comparative cleaning capacity of a sample of soap in soft and hard water.



MOUNT ST. MARY'S SCHOOL, DELHI CANTT.
SYLLABUS FOR ACADEMIC SESSION (2023-2024)
CLASS- X
BIOLOGY

CHAPTERS
LIFE PROCESSES
CONTROL AND COORDINATION
OUR ENVIRONMENT
HOW DO ORGANISMS REPRODUCE
HERIDITY AND EVOLUTION

SYLLABUS DISTRIBUTION

CYCLIC TEST - 1:

- **Our Environment.**
- **Life Processes: Digestion: Amoeba and Humans, Digestive System and Respiratory System**

PRE-TERM – I (TERM 1):

- **Our Environment**
- **Life Processes: Respiration and Excretion (both plants and animals) only**

CYCLIC TEST 2 (TERM 1):

- **CHAPTER: Life Processes- Transportation in Human beings and Plants (complete)**
- **CHAPTER: Control and Coordination till *How does Nervous Tissue Causes Action* (including intext blue box questions)**

FIRST TERM(SEPTEMBER):

- **Life Processes**
- **Control and Co-ordination**

PRE-BOARD-1 (NOVEMBER):

- **Control and Coordination**
- **How Do Organisms Reproduce?**

PRE-BOARD-2 (DECEMBER):

- **Life Processes**
- **Heredity and Evolution**

PRE-BOARD 3 AND ANNUAL TERM: Complete Syllabus

DETAILS OF THE CHAPTERS

Theme: The World of the Living

Unit II: World of Living

Life processes: 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

Control and co-ordination in animals and plants: Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones.

Reproduction: Reproduction in animals and plants (asexual and sexual) reproductive health – need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women’s health.

Heredity and Evolution: Heredity; Mendel’s contribution- Laws for inheritance of traits: Sex determination: brief introduction: (topics excluded – evolution; evolution and classification and evolution should not be equated with progress).

Theme: Natural Resources

Unit V: Natural Resources

Our environment: Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.

PRACTICALS

- Preparing a temporary mount of a leaf peel to show stomata.
- Experimentally show that carbon dioxide is given out during respiration.
- Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.
- Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

MOUNT ST. MARY’S SCHOOL

SYLLABUS

CLASS-X MATHS

SESSION -2023-24

PRE TERM 1

1. Coordinate Geometry
2. Probability
3. Polynomials

HALF YEARLY

1. Coordinate Geometry
2. Probability
3. Polynomials
4. Real Numbers
5. Pair of Linear Equations in two variables
6. Triangles
7. Introduction to Trigonometry
8. Areas related to Circles

PRE TERM 2

1. Some Applications of Trigonometry
2. Quadratic Equations

FINAL TERM

1. Coordinate Geometry
2. Probability
3. Polynomials
4. Real Numbers
5. Linear Equations in two variables
6. Triangles
7. Introduction to Trigonometry

8. Statistics
9. Quadratic Equations
10. Arithmetic Progressions
11. Circles
12. Some Applications of Trigonometry
13. Surface Area & Volume
14. Areas related to Circles

NOTE: Activities and Assignments based on AIL (art integration learning) will be carried out every month.