

MOUNT ST. MARY'S SCHOOL
SYLLABUS
CLASS-X MATHS
SESSION -2024-25

PRE TERM I

1. Real Numbers
2. Polynomials
3. Pair of Linear Equation in two variables
4. Coordinate Geometry

HALF YEARLY

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

Pre Board I

1. Probability
2. Statistics
3. Arithmetic Progressions
4. Circles
5. Some Applications of Trigonometry
6. Surface Area & Volume
7. Areas related to Circles

Pre Board II

1. Probability
2. Linear Equations in two variables
3. Triangles
4. Introduction to Trigonometry
5. Statistics
6. Arithmetic Progressions
7. Circles

PRE BOARD III

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

MOUNT SAINT MARY'S SCHOOL, DELHI CANTT

CLASS X – ENGLISH TERM WISE SYLLABUS 2024 - 25

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 Request

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

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

(Summer Holiday Homework)

1. **Poster - Any one**

A. 'Stop Cruelty against Animals'

(Based on the poem - A Tiger in the Zoo')

B. 'Mental Health and Teenagers'

(Based on the poem Amanda)

2. **Conversation strip** - Lencho and the God.

(Imagine - After reading the second letter of Lencho God decides to meet Lencho, using your creativity and imagination design a colourful graphical conversation page, size A4, to express your emotions)

You may take inspiration from the textbook sketches.

3. **Classified Advertisement** - Draft a matrimonial advertisement for either of the two pivotal protagonists of play 'The Proposal'.

4. **Brochure** - Design a Travel Brochure for a tours and travel company to visit Andaman and Nicobar Island (based on your reading the text of Glimpses of India)

C. Portfolio and Notebooks (Classwork and Homework)

Portfolio

A hard bound eco friendly cover

Cover page- Name, Class & section, Roll no. and session

1. Short Introduction of the students

2. **Poster** - Any one

D. 'Stop Cruelty against Animals'

(Based on the poem - A Tiger in the Zoo')

E. 'Mental Health and Teenagers'

(Based on the poem Amanda)

3. **Conversation strip** - Lencho and God

(Imagine - After reading the second letter of Lencho God decides to meet Lencho, using your creativity and imagination design a colourful graphical conversation page, size A4, to express your emotions)

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6. Certificates of any Inter school or Intra school literary event/MUN (Debate, Essay Writing, Speech, Poem Writing or Recitation etc.)

7. Print out / details of any page/blog on instagram or on any other social media website initiated or developed in the present session.

8. Copy of any English article published online or offline.

9. The copy of the answer sheet of the English exam in which the score is above 85 % in PT/Cyclic/HY/Preboard.

*****D. Assignments and worksheets as multiple assessments – based on textbooks.

MOUNT ST. MARY'S SCHOOL
CLASS –X
SOCIAL SCIENCE SYLLABUS (2024-25)
(CODE-087)

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

POLITICAL SCIENCE

Ch-1 Power Sharing
Ch-2 Federalism

GEOGRAPHY

Ch -1: Resources and Development (Geo)
Ch-2 Forest and Wildlife
Ch-3 Water Resources
Ch-4 Agriculture
Ch-5 Minerals

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 3: 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) (ONLY MAP)
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-4 Political Parties (Pol Sc)
Ch-5 Outcomes of Democracy (Pol Sc)
Ch-1 Resources and Development (Geo)
Ch-2 Forest and Wildlife Resources (Geo)
Ch-3 Water Resources (Geo)
Ch-6 Manufacturing Industries (Geo)

Pre-Board- III

Full Syllabus of Social Science



माउंट सेंट मेरीज़ विद्यालय, दिल्ली कैंट
विषय - हिंदी पाठ्यक्रम
कक्षा -दसवीं
2024-2025

परीक्षा का नाम	पढ़न कौशल	लेखन कौशल	व्याकरण	शब्दावली निर्माण	पाठ्यपुस्तक/पूरकपुस्तक
प्री टर्म-1	*अपठित गद्यांश	*पत्र- औपचारिक *विज्ञापन *सूचना * ई- मेल लेखन	*समास – द्वंद्व, द्विगु, बहुव्रीहि, कर्मधारय *पदबंध	मुहावरे	*बड़े भाई साहब *कबीर की साखी *हरिहर काका
अर्धवार्षिक परीक्षा	*अपठित गद्यांश *पठित गद्यांश *पठित पद्यांश	*पत्र- औपचारिक *विज्ञापन *सूचना *अनुच्छेद *ई- मेल लेखन/लघुकथा	*समास *पदबंध *वाक्य रचना	मुहावरे	*डायरी का एक पन्ना *तताँरा – वामीरो *बड़े भाई साहब *मनुष्यता *कबीर की साखी *मीरा के पद *सपनों के से दिन *हरिहर काका
प्री – बोर्ड-1	*अपठित गद्यांश *पठित गद्यांश *पठित पद्यांश	*पत्र- औपचारिक *विज्ञापन *सूचना	*समास *पदबंध *वाक्य रचना	मुहावरे	*कारतूस *पतझर में टूटी पत्तियाँ *अब कहाँ दूसरे के दुख से दुखी होने वाले *तीसरी कसम के शिल्पकार शैलेंद्र *तोप *कर चले हम फिदा *आत्मत्राण *टोपी शुक्ला
प्री – बोर्ड-2	*अपठित गद्यांश	*पत्र- औपचारिक	*समास *पदबंध	मुहावरे	*डायरी का एक पन्ना *तताँरा – वामीरो

	*पठित गद्यांश *पठित पद्यांश	*अनुच्छेद *ई- मेल लेखन/लघुकथा	*वाक्य रचना		*बड़े भाई साहब *कबीर की साखी *मनुष्यता *मीरा के पद *पर्वत प्रदेश में पावस *सपनों के से दिन *हरिहर काका
प्री – बोर्ड-3	संपूर्ण पाठ्यक्रम				

प्रश्न पत्र

परीक्षा का नाम	अंक
प्री टर्म-1	40
अर्धवार्षिक परीक्षा	80
प्री – बोर्ड-1	50
प्री – बोर्ड-2	50
प्री – बोर्ड-3	80

आंतरिक मूल्यांकन

- एकाधिक मूल्यांकन (Multiple Assessment)
- ग्रीष्मावकाश गृहकार्य (Summer Holiday Homework)
- उत्तर पुस्तिका मूल्यांकन (Notebook Assessment)
- अवधारणा मानचित्र (Mind Mapping)

KINDLY NOTE: As per C.B.S.E guidelines few topics can be added.

Class 10- Artificial Intelligence - Syllabus- 2024-25

Term-1

PT1- Part A Unit 1- Communication Skills II Unit 2- Self Management Skills , Part B Unit 1: Introduction to Artificial Intelligence Unit

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: 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 (2024-25)
CLASS – X
SCIENCE

A) 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

PRE-TERM – I (TERM 1): CHAPTER: 9 (Reflection of light, till page 145)

CYCLIC TEST 1 : (Syllabus will be informed later)

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:

- Determination of the focal length of:
 - concave mirror
 - convex lensby 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.

B) 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 p^H 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

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.

CYCLIC TEST 1 : (Syllabus will be informed later)

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, General

properties, examples and uses, neutralization, concept of p^H scale (Definition relating to logarithm

not required), importance of p^H 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.

C) BIOLOGY

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

SYLLABUS DISTRIBUTION

PRE-TERM – I (TERM 1):

- **Our Environment**
- **Life Processes: Only Till Nutriton**

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).**