

MOUNT ST. MARY'S SCHOOL
SYLLABUS
CLASS-IX
SESSION -2022-23

PRE TERM 1

1. **Coordinate Geometry**
2. **Lines and Angles**

HALF YEARLY

1. **Coordinate Geometry**
2. **Linear Equations in two variables**
3. **Statistics**
4. **Number System**
5. **Heron's Formula**
6. **Lines and Angles**
7. **Triangles**
8. **Introduction to Euclids geometry**

PRE TERM 2

1. **Polynomials**
2. **Quadrilaterals**

FINAL TERM

1. **Coordinate Geometry**
2. **Lines and Angles**
3. **Introduction to Euclid's Geometry**
4. **Number System**
5. **Polynomials**
6. **Linear Equations in two variables**
7. **Triangles**
8. **Heron's Formula**
9. **Statistics**
10. **Quadrilaterals**
11. **Circles**
12. **Surface Area and Volume**

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

CLASS- IX
SUBJECT- ENGLISH
SYLLABUS - 2022-2023
TERM I

Pre Term I

READING-

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)

WRITING-

1. Descriptive paragraph (Person)

GRAMMAR

1. Tenses
2. Subject-Verb Concord
3. Modals
4. Determiners
5. Reported Speech

LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

Moments

1. The Lost Child

Beehive

Prose

1. The Fun They Had

Poems-

1. The Road Not Taken

HALF YEARLY

READING-

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart) etc. 200-250 words

WRITING-

1. Descriptive paragraph (Word Limit 100-120 words) on a person/ event/ situation
2. Writing a Short Story (based on beginning line, outline, cues etc.)

GRAMMAR

1. Tenses
2. Subject-Verb Concord
3. Modals
4. Determiners
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

Moments

1. The Lost Child
2. The Adventures of Toto
3. Iswaran the Storyteller
4. In the Kingdom of Fools

Beehive

Prose

1. The Fun They Had
2. The Sound of Music
3. The Little Girl
4. A Truly Beautiful Mind

Poems

1. The Road Not Taken
2. Wind
3. Rain on The Roof
4. The Lake Isle of Innisfree

WORDS AND EXPRESSIONS (WORKBOOK)

Units 1 to 6

TERM II PRE TERM II

READING

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Case based Factual passage (with visual input/ statistical data/ chart etc. 200-250 words)

WRITING

1. Diary Entry

GRAMMAR

1. Subject-Verb Concord
2. Reported Speech
3. Commands and Requests
4. Questions

LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

Moments

1. The Happy Prince

Beehive

Prose

1. The Snake and the Mirror

Poems

1. The Legend of the Northland

FINAL EXAMINATION

READING-

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart etc. 200-250 words)

WRITING

1. Descriptive Paragraph (Person/ Event/ Situation)
2. Story writing (based on beginning line, outline, cues etc.) / Diary Entry

GRAMMAR

1. Tenses
2. Subject-Verb Concord
3. Modals
4. Determiners
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

WORDS AND EXPRESSIONS (WORKBOOK)

Units 1 to 6, 8, 10 and 11

LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

Moments

1. The Lost Child
2. The Adventures of Toto
3. Iswaran the Storyteller
4. In the Kingdom of Fools
5. The Happy Prince
6. The Last Leaf
7. A House is not a Home
8. The Beggar

Beehive

Prose

1. The Fun They Had
2. The Sound of Music
3. The Little Girl
4. A Truly Beautiful Mind
5. The Snake and the Mirror
6. My Childhood
7. Reach for The Top
8. Kathmandu
9. If I were You

Poems

1. The Road Not Taken
2. Wind
3. Rain on The Roof
4. The Lake Isle of Innisfree
5. A Legend of The Northland
- 6.No Men Are Foreign
7. On killing a Tree
8. A Slumber Did My Spirit Seal

हिन्दी पाठ्यक्रम

कक्षा नवीं- 2022 -2023

प्री-टर्म -1

स्पर्श-गद्य- दुःख का अधिकार, एवरेस्ट: मेरी शिखर यात्रा

स्पर्श-पद्य- रैदास

संचयन- गिल्लू

व्याकरण- उपसर्ग, प्रत्यय, अनौपचारिक पत्र, शब्द और पद, अनुस्वार, अनुनासिक

अर्ध वार्षिक परीक्षा

स्पर्श-गद्य- दुःख का अधिकार, एवरेस्ट: मेरी शिखर यात्रा, तुम कब जाओगे, अतिथि

स्पर्श-पद्य- रहीम, रैदास

संचयन- स्मृति, गिल्लू

व्याकरण- प्रत्यय, उपसर्ग, शब्द और पद, अर्थ के आधार पर वाक्य भेद, पत्र (अनौपचारिक), अनुच्छेद, संवाद लेखन, अनुस्वार, अनुनासिक, स्वर संधि, विराह-चिह्न, चित्र वर्णन, अपठित गद्यांश, पठित काव्यांश, पठित गद्यांश

प्री-टर्म-2

स्पर्श- गद्य- तुम कब जाओगे, अतिथि, वैज्ञानिक चेतना के वाहक; चन्द्रशेखर वेंकटरमन

स्पर्श- पद्य- गीत-अगीत

संचयन- कल्लू कुम्हार की उनाकोटी

व्याकरण- प्रत्यय, उपसर्ग, शब्द और पद, अनुस्वार, अनुनासिक, अर्थ के आधार पर वाक्य भेद, पत्र (अनौपचारिक)

वार्षिक परीक्षा

स्पर्श- गद्य- दुःख का अधिकार, एवरेस्ट: मेरी शिखर यात्रा, अतिथि तुम कब जाओगे,

वैज्ञानिक चेतना के वाहक; चन्द्रशेखर वेंकटरमन, शुक्रतारे के समान

स्पर्श- पद्य- अग्निपथ, नए इलाके में, खुशबू रचते हैं हाथ..., रैदास, रहीम, गीत-अगीत

संचयन- गिल्लू, स्मृति, कल्लू कुम्हार की उनाकोटी, मेरा छोटा-सा निजी पुस्तकालय

व्याकरण - प्रत्यय, उपसर्ग, शब्द और पद, अर्थ के आधार पर वाक्य भेद, पत्र (अनौपचारिक), अनुच्छेद, संवाद लेखन, अनुस्वार, अनुनासिक, स्वर संधि, विराह-चिह्न, चित्र वर्णन, अपठित गद्यांश, पठित काव्यांश, पठित गद्यांश

नोट- As per C.B.S.E guidelines these topics can be added.

धूल, कीचड़ का काव्य, शुक्रतारे के समान, अग्निपथ, नए इलाके में..... आदमी नामा, गीत-अगीत, वैज्ञानिक चेतना के वाहक....., कल्लू कुम्हार की उनाकोटी, मेरा छोटा-सा निजी पुस्तकालय

Mount St. Mary's School
SOCIAL SCIENCE SYLLABUS
CLASS IX (2022-2023)
(CODE NO. 087)

HISTORY:

1. The French Revolution
2. Socialism in Europe and the Russian Revolution
3. Nazism and the Rise of Hitler
4. Pastoralists in the Modern World

GEOGRAPHY:

1. India
2. Physical Features of India
3. Drainage
4. Climate
5. Natural Vegetation and Wildlife
6. Population

POLITICAL SCIENCE:

1. What is Democracy? Why Democracy?
2. Constitutional Design
3. Electoral Politics
4. Working of Institutions
5. Democratic Rights

ECONOMICS:

1. The Story of Village Palampur
2. People as Resource
3. Poverty as a Challenge
4. Food Security in India

EXAMINATION SYLLABUS (2022-2023)

PRE TERM-I

1. The French Revolution (HISTORY)
2. India- Size and Location (GEOGRAPHY)
3. The Story of Village Palampur (ECONOMICS)

HALF YEARLY/ TERM I EXAMINATION:

HISTORY:

1. The French Revolution
2. Socialism in Europe and the Russian Revolution

POLITICAL SCIENCE:

1. What is Democracy? Why Democracy
2. Constitutional Design
3. Electoral Politics

GEOGRAPHY:

1. India- Size and Location
2. Physical Features of India
3. Drainage

ECONOMICS:

1. The Story of Village Palampur
2. People as Resource

PRE TERM-II

1. Nazism and the Rise of Hitler (HISTORY)
2. Working of Institutions (POLITICAL SCIENCE)
3. Climate (GEOGRAPHY)
4. Natural Vegetation and Wildlife (GEOGRAPHY)
5. Poverty as a Challenge (ECONOMICS)

FINAL TERM/TERM II EXAMINATION:

HISTORY:

1. The French Revolution
2. Socialism in Europe and the Russian Revolution
3. Nazism and the Rise of Hitler
4. Pastoralists in the Modern World

GEOGRAPHY:

1. India
2. Physical Features of India
3. Drainage
4. Climate
5. Natural Vegetation and Wildlife
6. Population

POLITICAL SCIENCE:

1. What is Democracy? Why Democracy?

2. Constitutional Design
3. Electoral Politics
4. Working of Institutions
5. Democratic Rights

ECONOMICS:

1. The Story of Village Palampur
2. People as Resource
3. Poverty as a Challenge
4. Food Security in India

SCIENCE (Code No. 086) Classes: IX (2022-23)

The subject of Science plays an important role in developing well-defined abilities in cognitive, affective and psychomotor domains in children. It augments the spirit of enquiry, creativity, objectivity and aesthetic sensibility.

General Instructions:

1. There will be an **Annual Examination** based on the **entire syllabus**.
2. The Annual Examination will be of 80 marks and 20 marks weightage shall be for Internal Assessment.
3. For Internal Assessment: There will be Periodic Assessment that would include:
 - a. For 5 marks- Three periodic tests conducted by the school. Average of the best two tests to be taken that will have a weightage of 05 marks towards the final result.
 - b. For 5 marks- Diverse methods of assessment as per the need of the class dynamics and curriculum transaction. These may include - short tests, oral test, quiz, concept maps, projects, posters, presentations and enquiry based scientific investigations etc. and use rubrics for arguing them objectively. This will also have a weightage of 05 marks towards the final result.
 - c. Practical / Laboratory work should be done throughout the year and the student should maintain record of the same. Practical Assessment should be continuous. There will be weightage of 5 marks towards the final result. All practicals listed in the syllabus must be completed.
 - d. Portfolio to be prepared by the student- This would include classwork and other sample of student work and will carry a weightage of 5 marks towards the final results.

CHEMISTRY

Theme: Materials

Unit I: Matter-Nature and Behaviour

- A. Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state
melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.
- B. **Nature of matter:** Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).
- C. **Particle nature and their basic units:** Atoms and molecules, Law of Chemical Combination,
Chemical formula of common compounds, Atomic and molecular masses.
- D. **Structure of atoms:** Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.

PRACTICALS

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

(LIST OF EXPERIMENTS)

1. Preparation of:
 - a) a true solution of common salt, sugar and alum
 - b) a suspension of soil, chalk powder and fine sand in water
 - c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of
transparency
 filtration criterion
 stability
2. Preparation of
 - a) A mixture
 - b) A compoundusing iron filings and sulphur powder and distinguishing between these on the basis of:
 - (i) appearance, i.e., homogeneity and heterogeneity
 - (ii) behaviour towards a magnet

(iii) behaviour towards carbon di sulphide as a solvent

(iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes:

a) Iron with copper sulphate solution in water

b) Burning of magnesium ribbon in air

c) Zinc with dilute sulphuric acid

d) Heating of copper sulphate crystals

e) Sodium sulphate with barium chloride in the form of their solutions in water

4. Verification of the law of conservation of mass in a chemical reaction.

MOUNT. ST. MARY'S SCHOOL.

CLASS IX - CHEMISTRY

SYLLUBUS DISTRIBUTION FOR EXAMINATIONS (2022-23)

S.NO	EXAMINATION	CHAPTERS/TOPICS INCLUDED
1	PRE TERM-1	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions.
2	TERM I -EXAMINATION	Matter-Nature and Behaviour Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation. Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).
4	PRE TERM-II	Particle nature and their basic units: Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.
5	ANNUAL EXAMINATION	Matter-Nature and Behaviour Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation. Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture). Particle nature and their basic units: Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses. Structure of atoms: Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.

CLASS IX

SESSION 2022-2023

SUBJECT: BIOLOGY

CHAPTER WISE MARKS DISTRIBUTION

S.NO.	CHAPTER NUMBER	CHAPTER NAME
1.	5	The Fundamental Unit of Life
2.	6	Tissues
3.	7	Diversity in the Living Organisms
4.	3	Why do we fall ill?
5.	14	Natural Resources
6.	15	Improvement in Food Resources
TOTAL		

SYLLABUS DISTRIBUTION

- **PRE-TERM 1:** Chapter 5 and Chapter 6 till Page 73
- **HALF YEARLY:** Chapter 5, 6 and 7
- **PRE-TERM 2:** Plant Tissues and Chapter 13
- **FINAL EXAMINATION:** Chapter 5, 6,7,13,14 and 15

SYLLABUS FOR ACADEMIC SESSION (2022-2023)

CLASS- IX PHYSICS

CHAPTER NO.	TOPIC
8	MOTION
9	FORCE AND LAWS OF MOTION
10	GRAVITATION
11	WORK AND ENERGY
12	SOUND

SYLLABUS DISTRIBUTION

PRE-TERM – I (JULY): CHAPTER: 8 (Topic: Uniform circular motion-not coming in examination). Pre-Term-I

FIRST TERM(SEPTEMBER): CHAPTERS: 8, 9 and 10

PRE-TERM- II(NOVEMBER): CHAPTER: 11

SECOND TERM(MARCH): CHAPTERS: 8, 9, 10, 11,12(entire syllabus)

Class 9 AI Syllabus -2022-23

First Term

Pre Term-1 Examination

Part B- Subject Specific Skills:

Chapter 1 – Inspire and Acquire Module

Chapter 2 – Domains of AI (Data, CV, NLP)

Half Yearly Examination

Part A - Employability Skills:

Unit 2- Self Management Skills-1

Unit 3: ICT Skills-I

Part B- Subject Specific Skills:

Chapter1 – Inspire and Acquire Module

Chapter2 – Domains of AI (Data, CV, NLP)

Chapter 3- Applications of AI in solving real world issues

Second Term

Pre- Term 2 Examination

Part A- Employability Skills:

Unit 4 -Entrepreneurial Skills-1

Part B- Subject Specific Skills:

Chapter 5- Understanding AI Project Cycle

Final Term Examination

Part A- Employability Skills:

Unit 2- Self Management Skills-1

Unit 3: ICT Skills-I

Unit 4 -Entrepreneurial Skills-1

Part B- Subject Specific Skills:

- Chapter 1 – Inspire and Acquire Module
- Chapter 2 – Domains of AI (Data, CV, NLP)
- Chapter 3- Applications of AI in solving real world issues
- Chapter 4 - Ethics in AI
- Chapter 5- Understanding AI Project Cycle
- Chapter 6 – Getting started with Neural Networks

Practical Exam

Python –

- Chapter 7- Basics of Python for use in AI projects

Note: The following units of “Part A- Employability Skills” to be assessed through Internal Assessment/ Student Activities:

Unit 1: Communication Skills-I*

Unit 5: Green Skills-I*