

## Class 9 Artificial Intelligence Syllabus – 2024-25

### Pre Term1

#### **Part B :Subject Specific Skills**

Unit 1: - Introduction to AI [Until Careers in AI]

### Half Yearly Examination

#### **Part A: Employability Skills**

Unit 1: Communication Skills-I

Unit 2: Self-Management Skills-I

#### **Part B :Subject Specific Skills**

Unit 1: AI Reflection, Project Cycle and Ethics

Unit 5: Introduction to Python

Variables, Arithmetic Operators, Expressions, input(), print()

### Pre Term2

#### **Part A: Employability Skills**

Unit 3: ICT Skills-I

#### **Part B :Subject Specific Skills**

Unit 2: Data Literacy

Unit 5: Introduction to Python

Variables, Arithmetic Operators, Expressions, input(), print()

Data Types

- Flow of control and conditions

### Final term Examination

#### **Part A: Employability Skills**

Unit 1: Communication Skills-I

Unit 2: Self-Management Skills-I

Unit 3: ICT Skills-I

Unit 4: Entrepreneurial Skills-I

Unit 5: Green Skills-I

#### **Part B :Subject Specific Skills**

Unit 1: AI Reflection, Project Cycle and Ethics

Unit 2: Data Literacy

Unit 3: Math for AI (Statistics & Probability)

Unit 4: Introduction to Generative AI

Unit 5: Introduction to Python

- Variables, Arithmetic Operators, Expressions, Data Types
- Flow of control and conditions
- Lists



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

परीक्षा का नाम	पढ़न कौशल	लेखन कौशल	व्याकरण	पाठ्यपुस्तक/पूरकपुस्तक
प्री टर्म-1	अपठित गद्यांश	अनौपचारिक पत्र	शब्द और पद ,अनुस्वार - अनुनासिक , उपसर्ग-प्रत्यय	दुख का अधिकार , रैदास , गिल्लू

अर्धवार्षिक परीक्षा	अपठित गद्यांश पठित गद्यांश पठित पद्यांश	अनौपचारिक पत्र, संवाद- लेखन चित्र -लेखन अनुच्छेद	उपसर्ग -प्रत्यय ,शब्द और पद अर्थ के आधार पर वाक्य भेद, अनुस्वार-अनुनासिक, स्वर संधि ,विराम चिह्न	तुम कब जाओगे अतिथि , दुख का अधिकार, एवरेस्ट मेरी शिखर यात्रा, स्मृति ,गिल्लू , रैदास ,रहीम
प्री टर्म-2	अपठित गद्यांश	औपचारिक पत्र	रचना के आधार पर वाक्य भे समास	चेतना के वाहक चंद्रशेखर..., गति -अगीत , कल्लू कुम्हार की उनाकोटी
वार्षिक परीक्षा	अपठित गद्यांश पठित गद्यांश पठित पद्यांश	लघुकथा, सूचना विज्ञापन, अनुच्छेद , औपचारिक पत्र	रचना के आधार पर वाक्य भेद , समास, विराम चिह्न, अर्थ के आधार पर वाक्य भेद शब्द और पद  *संपूर्ण पाठ्यक्रम	शुक्रतारे के समान , चेतना के वाहक चंद्रशेखर, तुम कब जाओगे अतिथि ,दुख का अधिकार , एवरेस्ट मेरी शिखर यात्रा, स्मृति, गिल्लू कुम्हार की उनाकोटी, मेरा छोटा सा निजी पुस्तकालय , अग्निपथ, नए इलाके में, खुशबू रचते हैं हाथ, गति-अगीत , रैदास ,रहीम  *संपूर्ण पाठ्यक्रम

**प्रश्न पत्र**

परीक्षा का नाम	अंक
प्री टर्म-1	20
अर्धवार्षिक परीक्षा	80
प्री टर्म-2	20
वार्षिक परीक्षा	80

**आंतरिक मूल्यांकन :-अर्धवार्षिकपरीक्षा / वार्षिकपरीक्षा**

आंतरिकमूल्यांकन	आंतरिकमूल्यांकन
1. एकाधिक मूल्यांकन(Multiple Assessment)	1. एकाधिक मूल्यांकन(Multiple Assessment)
2. ग्रीष्मावकाश गृहकार्य (Summer Holiday Homework)	2. शीतावकाश गृहकार्य (Winter Holiday Homework)
3. उत्तरपुस्तिका मूल्यांकन (Notebook Assessment)	3. उत्तरपुस्तिका मूल्यांकन (Notebook Assessment)
4. अवधारणा मानचित्र (Mind Mapping)	4. अवधारणा मानचित्र (Mind Mapping)

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



**MOUNT ST. MARY'S SCHOOL**  
**SOCIAL SCIENCE SYLLABUS**  
**CLASS IX (2024-2025)**  
**(CODE NO. 087)**  
**EXAMINATION SYLLABUS (2024-2025)**

**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
4. Natural Vegetation and Wildlife (MAP WORK)

**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. 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

**POLITICAL SCIENCE:**

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

**GEOGRAPHY:**

1. India
2. Physical Features of India
3. Drainage
4. Climate
5. Natural Vegetation and Wildlife (Only Map Work)
6. Population

**ECONOMICS:**

1. People as Resource
2. Poverty as a Challenge
3. Food Security in India



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

**PRE TERM 1**

- 1. Coordinate Geometry**
- 2. Number System**

**HALF YEARLY**

- 1. Coordinate Geometry**
- 2. Introduction to Euclid's Geometry**
- 3. Number System**
- 4. Polynomials**
- 5. Lines and Angles**
- 6. Triangles**
- 7. Heron's Formula**

**PRE TERM 2**

- 1. Linear Equations in two variables**
- 2. Surface Areas and Volumes**

## **FINAL TERM**

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

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

**MOUNT ST. MARY'S SCHOOL, DELHI CANTT.  
SYLLABUS (2024-25)  
CLASS - IX  
SCIENCE**

### **A) PHYSICS**

<b>CHAPTER NO.</b>	<b>TOPIC</b>
7	MOTION
8	FORCE AND LAWS OF MOTION
9	GRAVITATION
10	WORK AND ENERGY
11	SOUND

### **SYLLABUS DISTRIBUTION**

**PRE-TERM – I (MAY): CHAPTER: 7**

**FIRST TERM(SEPTEMBER): CHAPTERS:7, 8 and 9**

**PRE-TERM- II(DECEMBER): CHAPTER: 10**

**SECOND TERM(FEBRUARY): CHAPTERS: 7, 8, 9, 10, 11(entire syllabus)**

#### **TOPICS:**

**Motion:** Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion.

**Force and Newton's laws :** Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration.

**Gravitation:** Gravitation; Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall.

**Floatation:** Thrust and Pressure. Archimedes' Principle; Buoyancy.

**Work, Energy and Power:** Work done by a Force, Energy, power; Kinetic and Potential energy; Law of conservation of energy (excluding commercial unit of Energy).

**Sound:** Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo.

### PRACTICALS:

1. Determination of the density of solid( denser than water) by using a spring balance and a measuring cylinder.
2. Establishing the relation between the loss in weight of a solid when fully immersed in  
(a) tap water  
(b) Strongly salty water  
with the weight of water displaced by it by taking at least two different solids.
3. Verification of the laws of reflection of sound.
4. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).

### B) CHEMISTRY

**Theme: Materials**

**Unit I: Matter-Nature and Behaviour**

S.No	Chapter No	Topic
1	1	<b>Matter in our surroundings:</b> 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.
2	2	<b>Is matter around us pure:</b> Elements, compounds and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).
3	3	<b>Atoms and Molecules: Particle nature and their basic units:</b> Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.
4	4	<b>Structure of Atoms:</b> Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.

### SYLLABUS DISTRIBUTION:-

#### PRE-TERM-I:

**CHAPTER: 1 Matter in our surroundings:** Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state, melting (absorption of heat), freezing, condensation, sublimation.

## **FIRST TERM:**

**CHAPTER: 1: Matter in our surroundings:** 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.

**CHAPTER: 2: Is matter around us pure:** Elements, compounds and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).

## **PRE-TERM-II:**

**CHAPTER: 3: Atoms and Molecules: Particle nature and their basic units:** Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.

## **ANNUAL Examination:**

**CHAPTER: 1: Matter in our surroundings:** 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.

**CHAPTER: 2: Is matter around us pure:** Elements, compounds and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture).

**CHAPTER: 3: Atoms and Molecules: Particle nature and their basic units:** Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.

**CHAPTER: 4 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 compound

using 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 disulphide 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. Determination of the melting point of ice and the boiling point of water.
- 5. Verification of the law of conservation of mass in a chemical reaction.

### C) BIOLOGY TERM- WISE SYLLABUS DISTRIBUTION

<b>PRE- TERM 1</b>	<b>Cell: Fundamental Unit of Life (<i>excluding Cell Division</i>)</b>
<b>HALF- YEARLY</b>	<b>Cell: Fundamental Unit of Life</b> <b>Plant Tissue</b>
<b>PRE- TERM 2</b>	<b>Animal Tissues</b> <b>Improvement in Food Resources</b>
<b>FINAL TERM</b>	<b>Complete Syllabus</b>

## CLASS- IX SUBJECT- ENGLISH SYLLABUS - 2024-2025 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

- **Subject to change as per the latest syllabus by CBSE.**