DON BOSCO SCHOOL OODLABARI

CLASS : X

SYLLABUS

ACADEMIC SESSION

2026-27

DON BOSCO SCHOOL, OODLABARI

Syllabus - Class: X

Academic Session 2026 - 27

SUBJECT: VALUE EDUCATION

COURSE OBJECTIVES

- To develop students' ability to express ideas clearly through value-based and reflective compositions.
- To encourage positive thinking, self-confidence, and goal-setting skills through thematic writing tasks.
- To promote ethical awareness, social responsibility, and respectful behavior.
- To enhance structured writing skills with logical organization and meaningful content.

LEARNING OUTCOMES

- Write well-structured compositions on themes related to self-development, focus, resilience, and personal growth.
- Express ideas on social values such as equality, peaceful solutions, responsibility, and ethical behavior.
- Demonstrate critical thinking while discussing real-life issues like smart decision-making and future planning.
- Communicate thoughts clearly and confidently with proper organization, coherence, and appropriate language.

TERM – 1

Half Yearly Examination: (50 Marks)

1. Believe in yourself
2. Dream big plan well
3. Stay focused
4. Smart study hacks
5. The power of concentration
6. Keep calm and carry on
7. Love yourself
8. Healthy friendships, healthy life
9. Bounce back stronger

TERM – 2

Final Examination: (50 Marks)

1. Peaceful solutions
2. Equal and respectful
3. Doing the right thing
4. Your role in society
5. Discover your future
6. Smart money moves
7. Say no to harm
8. Make the world better

SUBJECT: CATECHISM

COURSE OBJECTIVES

- Students understand the core teachings of Jesus
- Learn Moral and spiritual values
- Relate and reflect Biblical teachings to personal faith formation and ethical decision making

LEARNING OUTCOMES

- Analyze significant events
- Apply Biblical principles by demonstrating understanding of humility, forgiveness, service and faithfulness in real life situations.
- Show personal reflection on spiritual growth and moral responsibility.

Half Yearly Examination: (50 Marks)

Le 101 The parable of the rich man and Lazarus
Le 102 The parable of the Pharisee and the tax collector
Le 103 the Lord's Prayer
Le 104 Jesus' glorious entry into Jerusalem
Le 105: Jesus washes the feet of his disciples
Le 106; The last supper
Le 107 Jesus' agony in the garden
Le 108 The kiss of Judas
Le 109 Peter denies Jesus
Le 110 Jesus before Caiaphas

Pre-Board: (50 Marks)

Le 111 Jesus before Pilate
Le 112 Jesus is crowned with thorns

Le 113 The way of the cross
Le 114 The death of Jesus on the Cross
Le 115 The resurrection of Jesus
Le 116 Jesus appears to Mary Magdalene
Le 117 Jesus appears to his apostles
Le 118 The Ascension of Jesus
Le 119 The descent of the Holy Spirit
Le 130 Religious Freedom

SUBJECT: ENGLISH LANGUAGE

LEARNING OUTCOMES:

- Write clear, coherent, and well-organized compositions in different formats prescribed by ICSE.
- Demonstrate accuracy in grammar, syntax, and vocabulary usage.
- Analyse and interpret unseen passages effectively with logical reasoning.
- Communicate ideas confidently and appropriately in formal written contexts.

LEARNING OUTCOMES:

- To develop advanced language proficiency in grammar, vocabulary, and sentence structure.
- To enhance functional writing skills such as proposal writing, report writing, andargumentative compositions.
- To improve comprehension and analytical skills through unseen passages.
- To strengthen formal communication skills required for academic and professional contexts.

Pre Assessment:
1. Compositions: (March-April)
A. Descriptive
B. Narrative
C. Argumentative
D. Short story writing
E. Picture Composition
2. Informal letter / Formal Letter (April)
3. Notice and E-mail (April)
4. Comprehension (April)
5. Grammar: Ch 1, Ch 4, Ch 5, Ch 6 &Ch 7. (May)

Projects:
Write a composition of 1000 words on “Role of Youth in Nation Building “

/ Oral – Aural

Half Yearly:
1.Compositions: (June-July)
A. Descriptive
B. Narrative
C. Argumentative
D. Short story writing
E. Picture Composition
2. Informal letter / Formal Letter (July)
3. Notice and E-mail (July)
4.Comprehension (July)
5. Grammar: Ch 1, Ch 7, Ch 8, Ch 11, Ch 12, Ch 13. (July-August)

Projects:
Write a composition of 1000 words on "Importance of Self Discipline "/ 0ral–Aural

Pre Board: 01.12.2026
1.Compositions: (August-September)
a. Descriptive
b. Narrative
c. Argumentative
d. Short story writing
e. Picture Composition
2. Informal letter / Formal Letter (October)
3. Notice and E-mail (October)
4.Comprehension (October)
5. Grammar: Ch 1, Ch 4, Ch 5, Ch 6, Ch 7, Ch 8, Ch 12, Ch 13, Ch 11. (November)

Projects:
Write a composition of 1000 words on
1. "Protecting Endangered Animals "
2. "Impact of Globalization on Local Cultures"

SUBJECT: ENGLISH LITERATURE

COURSE OBJECTIVES

- Understanding literary forms, identifying literary devices. Fostering appreciation for different narrative techniques and styles.

- Critical thinking and analysis & Cultural awareness: To develop critical thinking skills through the analysis of themes, characters and the plot structures in the texts. To enhance students' understanding of cultural, historical and social contexts represented in literature.
- Language proficiency and creative expression: To improve vocabulary, comprehension and language skills through reading, discussing and interpreting literary texts. To encourage creative expression through writing assignments, discussions and presentations based on literature studied.
- Character and moral development: To explore moral dilemmas and character development in literature, encouraging students to reflect on their own values and beliefs.

LEARNING OUTCOMES

By the end of the course students will be able to:

- Analyse texts and engage in discussions: Demonstrate the ability to analyse and interpret stories, poems and drama, identifying keys themes, literary devices and character motivations. Participate effectively in class discussions, articulating personal insights and supporting arguments with evidence from the text.
- Write critically and appreciate poetry: Compose coherent responses that critically engage with the texts, showcasing their understanding of the plot, character development and thematic elements. Recognize and appreciate various poetic forms and devices (such as imagery, metaphor and rhyme) used in the poems studied, articulating their effects on meaning and emotion.
- Reflect on theme: Reflect on universal themes such as power, betrayal, friendship and ambition as presented in the poems, stories and drama, relating them to personal experiences and contemporary life.
- Demonstrate Language Skills: Show improvement in language skills through reading comprehension exercises, vocabulary expansion and written assignments related to literary works.

PRE-ASSESSMENT (80 marks)

Prose

Ch 11. With the Photographer (March)

Ch 12. The Elevator (April)

Poetry

Ch 11. Haunted Houses (March)

Ch 12. The Glove and the Lions (April)

Drama

Julius Caesar Act III Sc. 1, 2 & 3. (May)

Half Yearly Examination: (80 Marks)

Prose

Ch.13. The Girl Who Can (June)
Ch 11. With the Photographer (July)

Poetry

Ch 13. When Great Trees Fall (July)
Ch11. Haunted Houses (March)

Drama

Julius Caesar Act IV Sc 1, 2 & 3 (August)

PREBOARD: (80 Marks)

Prose
Ch. 14. The Pedestrian (August)
Ch. 15. The Last Lesson (October)

Poetry

Ch. 14.A Considerable Speck (September)
Ch.15.The Power of Music (November)

Drama

Julius Caesar Act V Sc 1 - 5. (Previous Acts III & IV included). (November)

INTERNAL ASSESSMENT (PROJECT - 20 marks)

1. How does Shakespeare maintain our interest in the play once its hero, Julius Caesar, is dead?
2.Comment on the setting, style and theme of the short story "The Girl Who Can".

SUBJECT: HINDI

COURSE OBJECTIVES

- नैतिक मूल्यों का विकास
- भाषा के माध्यम से व्यक्तित्व विकास
- शब्दावली का विस्तार
- भाषा कौशल का विकास
- साहित्यिक रुचि

LEARNING OUTCOMES

- नए शब्दों का सही प्रयोग करना
- गद्य पद्य पढ़कर मुख्य आशय समझना
- अपने विचारों को व्यक्त करना
- साहित्यिक और रचनात्मक विकास
- व्याकरणिक समझ

Pre-Assessment (80 Marks)

गद्य भाग

Ch - 1. बात अठन्नी की (March)
Ch - 2. काकी (March)
Ch - 6. बड़े घर की बेटी (April)
पद्य भाग
Ch - 1. साखी (April)
Ch - 2. गिरधर की कुंडलियां (May)
Ch - 6. सूर के पद (May)
नया रास्ता: अध्याय - एक ,दो ,तीन, चार, पांच, छह, सात, आठ, नौ, दस (March-April-May)
व्याकरण - संज्ञा, सर्वनाम, विशेषण, पर्यायवाची शब्द, वाक्यांश के लिए एक शब्द, मुहावरे, विलोम शब्द, निबंध, अपठित गद्यांश, पत्र लेखन (MCQ) (March-April-May)

Half Yearly Examination: (80 Marks)

गद्य भाग
Ch - 3. महायज्ञ का पुरस्कार (June)
Ch - 4. नेताजी का चश्मा (June)
Ch - 7. संदेह (June-July)
Ch - 8. भीड़ में खोया आदमी (July)

पद्य भाग
Ch - 3. स्वर्ग बना सकते है (June)
Ch - 4. वह जन्मभूमि मेरी (August)
Ch - 7. विनय के पद (August)
Ch - 8. भिक्षुक (August)

नया रास्ता: अध्याय - 11 to 20 (June-July-August)
व्याकरण - संज्ञा, सर्वनाम, विशेषण, पर्यायवाची शब्द, वाक्यांश के लिए एक शब्द, मुहावरे, विलोम शब्द, निबंध, अपठित गद्यांश, पत्र लेखन (MCQ) (June-July-August)

Pre-Board: (80 Marks)

गद्य भाग
All Chapters (September- November)

पद्य भाग
All Chapters (September- November)

नया रास्ता: अध्याय - 1 to 26 (September- November)

व्याकरण _ संज्ञा, सर्वनाम, विशेषण, पर्यायवाची शब्द, वाक्यांश के लिए एक शब्द, मुहावरे, विलोम शब्द, निबंध, अपठित गद्यांश, पत्र लेखन (MCQ) (September- November)

Internal Assessment: Project / Practical Work (20 Marks)
1. स्त्री शिक्षा कितनी आवश्यक है और क्यों? सरकार द्वारा किए जा रहे प्रयासों का उल्लेख करते हुए अपने विचार व्यक्त कीजिए तथा चित्र भी चिपकाए। (250 शब्द)
2. बड़े घर की बेटी कहानी के कहानीकार का जीवन परिचय लिखिए तथा चित्र भी चिपकाइए ।
3. बड़े घर की बेटी कहानी का सारांश लिखिए। (200 शब्द)
4. सूर के पद _पद्य सुंदर अक्षरों में लिखिए ।
5. सूरदास का जीवन परिचय लिखिए तथा चित्र भी चिपकाइए ।
6. सूर के पद - पद्य का सार 200 शब्दों में लिखिए ।

SUBJECT: BENGALI

COURSE OBJECTIVES

Course objective is to focus on improving students' language skills, literary understanding, cultural awareness, conceptual clarity and critical thinking.

LEARNING OUTCOMES

Learning outcome by the end of session is improve in writing and speaking skills, grammar and language use, vocabulary development and literary appreciation.

Pre-Assessment (80 Marks)

Sankolita –
Prose –
Ch - 7- দেবতার জন্ম (March)
Ch -2- লালু (Completed in class 9)
Ch - 3-বামা (Completed in class 9)
Poetry –
Ch -7- ফুল ফুটুক না ফুটুক (April)
Ch -2- সভ্যতার প্রতি (Completed in class 9)
Ch -3- কুলি মজুর (April)

Grammar - Topic - বাচ্য পরিবর্তন (April), সাধু ভাষা ও চলিত ভাষা (May), সন্ধি, ছেদ বা যতি চিহ্ন (May), প্রবন্ধ রচনা (April), গল্প লিখন, ছবি বর্ণনা, চিঠি, বোধ পরীক্ষণ (May-June)

Half Yearly Examination: (80 Marks)

Sankolita –
Ch -8- নীল মানুষের কাহিনী (July)
Ch - 9- গন্ধটা খুব সন্দেহজনক (July)
Ch -1- গিন্নি (Completed in class 9)
Poetry –
Ch -8- অমলকান্তি (July)
Ch - 9 - বাবু বলেন (August)
Ch -1- বঙ্গভূমির প্রতি (Completed in class 9)
Grammar - Topic - বাক্য পরিবর্তন, উক্তি পরিবর্তন, বাগধারা, এক কথায় প্রকাশ, একই শব্দের ভিন্ন অর্থে প্রয়োগ, প্রবন্ধ রচনা, গল্প লিখন, ছবি বর্ণনা, চিঠি, বোধ পরীক্ষণ (July-August)

Pre-Board: (80 Marks) (Full Book as per ICSE)

Internal Assessment: Project / Practical Work (20 Marks)

1) প্রবচন বাক্য (Pg no -24 and 25) ।
2) 'গন্ধটা খুব সন্দেহজনক ' গল্পের লেখক পরিচিতি সহ বিষয় সংক্ষেপ লেখো।
3) " কষ্ট না করলে কেষ্ট মেলে না " এই প্রবাদ বাক্য অবলম্বনে একটি মৌলিক ছোট গল্প লেখো।
4) অমলকান্তি কবিতাটি লেখো এবং অমলকান্তির চরিত্র চিত্রন করো।

SUBJECT: NEPALI

COURSE OBJECTIVES

- नेपाली भाषामा पठन लेखन र बोल्ने सीप विकास गर्नु।
- व्याकरण ज्ञान |
- शब्द भण्डारको वृधि |
- सृजानात्मक लेखन |
- नेपाली भाषा र संस्कृतिको ज्ञान |

LEARNING OUTCOMES

- सुनेको कुरा बुझ्न सक्नु |
- विचार व्यक्त गर्न सक्नु |
- गद्य / पद्य पढेर मुख्य आशय बुझ्न सक्नु |
- नयाँ शब्दको सही प्रयोग गर्नु |

TERM – 1- Pre -Assessment (80 Marks)

Any two books

कथा -

Ch 1- औँठी (April)

Ch 2 - चपरासी (April)

Ch 3- तार चुडिएको सारंगी (May)

कविता -

Ch 1- मृत्यु: कामना केही मेरा (April)

Ch 2- मन (April)

Ch 3- बोली (May)

भ्रमर - भाग 1, भाग 2 (April-May)

व्याकरण -

नामको भेद, नामको रुपान्तर, विशेषण, सर्वनाम, क्रिया, अव्यय,विपरीत शब्द,सार शब्द,पर्यायवाची शब्द, उखान, वाग्धारा,

निबन्ध/ बोध क्षमता /पत्र लेखन | (April-May)

Half Yearly Examination: (80 Marks)

Any two books

कथा -

Ch 4 - मृत्युकै मुखेन्जी (June)

Ch 5 - संगत (July)

Ch 6 - जिउँदो लाश (July)

कविता -

Ch 4 - नत्र बर्बाद भयो (June)

Ch 3 - लक्ष्य (July)

Ch 6 - कर्म (July)

भ्रमर -

भग – 3, भग – 4 (June-July-August)

व्याकरण -

नामको भेद, नामको रुपान्तर, विशेषण, सर्वनाम, क्रिया, अव्यय,विपरीत शब्द,सार शब्द,पर्यायवाची शब्द,
निबन्ध / बोध क्षमता / पत्र लेखन (June-July-August)

Pre-board Examination: (80 Marks)
Any two books
कथा – All Chapter (September-November)
कविता – All Chapters (September-November)
भ्रमर - All Chapter (September-November)
व्याकरण -
नामको भेद, नामको रुपान्तर, विशेषण, सर्वनाम, क्रिया, अव्यय,विपरीत शब्द,सार शब्द,पर्यायवाची शब्द,
निबन्ध / बोध क्षमता / पत्र लेखन (September-November)

Internal Assessment: Project / Practical Work (20 Marks)
निबन्ध -
i) समय बितेपछि केही गर्न नसकिँदो रहेछ |
मैले पनि यसरी नै समय नष्ट गरें र अहिले……
यो लहरबाट सुरु गरेर एउटा छोटो मौलिक कथा लेख | (250 शब्दमा)
ii)कथा -' जीवन यात्रामा 'कथाकारको परिचय
(चित्र पनि टाँस्नुहोस्)
iii) कथाको सारांश
iv)कविता - राम भरत संवाद (कविता लेख्नु होस्)
कवि परिचय - (चित्र पनि टाँस्नुहोस्)
कविताको सार -(200 शब्दमा)
v) भ्रमर - उपन्यासकारको परिचय (चित्र पनि टाँस्नुहोस्)
चरित्र चित्रण - भ्रमरबाट कुनै चार मुख्य पात्रको चरित्र चित्रण गर्नुहोस|| (200 शब्दमा)

SUBJECT: HISTORY & CIVICS

COURSE OBJECTIVES

- To develop an understanding of past events and their impact on the present.
- To build a sense of identity, patriotism, and global awareness.
- To understand the structure and functions of government.
- To develop awareness of democratic values and principles.

LEARNING OUTCOMES

- Analyse important historical events, periods, and civilizations.
- Develop critical thinking by analysing different viewpoints in history.

- Demonstrate responsible citizenship in daily life.
- Understand the structure and functions of government

Pre-Assessment (80 Marks)
1. The Union Legislature (March)
2.The Union Executive (March)
3.The Judiciary (April)
4. The Indian National Movement (1857-1917)
a. First war of Independence 1857 (April)

Half Yearly Examination: (80 Marks)

1. The Indian National Movement (1857-1917) (May-June)
a) Factors leading to the growth of Nationalism
b) First Phase of the Indian National Movement (1885-1907)
c) Second Phase on Indian National Movement (1907-1917)

2. Mass Phase of the National Movement (1915- 1947) (July-August)
a) Mahatma Gandhi
b) Forward Bloc
c) Independence and Partition

Pre-Board: (80 Marks) (Full Book as per ICSE)

1. The Union Legislature (March)
2.The Union Executive (March)
3.The Judiciary (April)
4. The Indian National Movement (1857-1917) (May-June)
5. Mass Phase of the National Movement (1915- 1947) (July-August)
6. The Contemporary World (September-October)

Internal Assessment: Project / Practical Work (20 Marks) **(Any one)**

1.Compare the Parliamentary and Presidential forms of Government with reference to India and the U.S.A.
2.Present a book review of any one of the following works: Dadabhai Naoroji's 'Poverty and un-British rule in India', Gandhi's 'The Story of my Experiments with Truth', Nehru's 'Discovery of India', Bhagat Singh's 'Why I am an Atheist', Vijayalakshmi Pandit's 'The Scope of Happiness: A Personal Memoir', Abdul Kalam's 'Wings of Fire' or any other relevant book.

SUBJECT: GEOGRAPHY

COURSE OBJECTIVES

1. To develop a comprehensive understanding of India's physical features, climate, soil, natural vegetation, and water resources.
2. To study the distribution and management of minerals, energy resources, agriculture, and industries in India.
3. To analyze the relationship between natural resources and economic development.
4. To strengthen skills in topographical map reading and interpretation of statistical data (maps, signs, symbols, patterns)

LEARNING OUTCOMES

1. Students will be able to describe and explain the physical and climatic features of India and their impact on human life.
2. Students will be able to identify major agricultural regions, mineral belts, and industrial centers of India.
3. Students will be able to analyze resource utilization, environmental issues, and suggest sustainable solutions.
4. Students will be able to accurately interpret topographical sheets and geographical data in examination-oriented formats.

Pre- Assessment (100marks)

Chapter 3- Climate of India [By March]
Chapter 4- Soil resources of India. [By April]
Chapter 5- Natural Vegetation [By April]
Map work - India's map [By April]

Half yearly Examination- (100 marks)

Chapter 3- Climate of India [By March]
Chapter 4- Soil resources of India. [By April]
Chapter 5- Natural Vegetation [By May]
Chapter 6- Water Resources [By May]
Chapter 7 - Mineral and Energy Resources 1. [By June]
Chapter 8-Mineral and Energy Resources II [By July]
Map work- India's map [By July]
Topo map- Introduction- arbitrary grids, signs, symbols and colour. [By July]

Preboard Examination (100 marks)

1. Whole syllabus (All chapters)

Internal Assessment: Project / Practical Work (20 Marks)

Key Project Topics (Select Any One):

1. Local Geography: Comparative analysis of land use patterns in different Indian regions or a survey of local market types and services.
2. Environment: Study of wildlife conservation efforts in India.
3. Current Issues: Development of tourism in India (choosing a region/city developed over the last 10 years).
4. Transport: Development of road, rail, water, and air routes.
5. Industries: Study of industries in a specific state (raw materials, waste management, pollution classification).
6. Waste Management: Visiting a local waste management site (water treatment/sewage/dumping site).

SUBJECT: MATHEMATICS

COURSE OBJECTIVES

- To develop a clear understanding of fundamental mathematical concepts such as Algebra, geometry, trigonometry, mensuration, statistics and probability.
- To enable students to think critically, apply mathematical reasoning and solve problem.
- Encourage the practical application of mathematical concepts in daily life.
- Promote systematic working, accuracy in calculation and confidence in tackling board examination level problems.

LEARNING OUTCOMES

- Students will be able to understand and explain key concepts of algebra, geometry, trigonometry, statistics and probability.
- Students will be able to solve routine and non-routine problems accurately using formulas, theorems and logical reasoning.
- Students will be able to construct, interpret and analyze graphs, statistical measures
- Students will be able to apply mathematical knowledge in practical situations such as Banking, GST and data handling with confidence and accuracy.

Pre-Assessment (80 Marks)

Chapter 1- GST (March)
Chapter 2- Banking (March)
Chapter3- Shares and Dividend (March)
Chapter 4- Linear Inequation (March)

Chapter 12- Reflection (March)
Chapter 16-Loci (March)
Chapter 19 - Constructions (March)
Chapter 5- Quadratic Equations (April)
Chapter 6- Problems on quadratic equations (April)
Chapter 21- Trigonometrical Identities (April)
Chapter 22- Height and Distances (May)
Chapter 25- Probability (May)
Chapter 15- Similarity (June)

Internal assessment (Projects):
Project on making a family Budget
Project on Mensuration

Half Yearly Examination: (80 Marks)
Pre-Assessment +
Chapter 7- Ratio and Proportion (July)
Chapter 8- Remainder and factor Theorem (June)
Chapter 20- Volume and Surface area of Solids (June)
Chapter 10 – A.P (April)
Chapter 16- Circle (July)
Chapter18- Tangent and Intersecting cords (July)

Pre-Board: (80 Marks) (Full Book as per ICSE)

Internal Assessment: Project / Practical Work (20 Marks)
1.Project on making a Family Budget
2.Project on Mensuration

SUBJECT: PHYSICS

COURSE OBJECTIVES

- To build a strong understanding of fundamental physical laws and concepts.
- To develop problem solving and analytical skills through numerical and practical work.
- To relate physics concepts to real-life applications and everyday phenomena.

LEARNING OUTCOMES

- Students can explain key concepts and solve numerical problems accurately.
- Students can perform experiments, record observations and draw valid calculations.

- Students can apply physics principles logically to practical and real-world situations.

PRE-ASSESSMENT (80 marks)

1. Force (March)
2. Work, Power and energy (April)
3. Machines (April-May)
4. Refraction of Light through plane surfaces
5. Refraction of Light through lenses
6. Electricity
7. Household Circuits

Internal Assessment: Project / Practical Work (20 Marks)

1. To trace the path of a ray reflected by a plain mirror and also prove the laws of reflection
2. To trace the path of a ray passing through a rectangular glass slab and also calculate the refractive index of the material of that slab
3. To find the focal length of a convex lens by using an optical bench

HALF-YEARLY EXAM (80 marks)

1. Force
2. Work, Power and energy
3. Calorimeter (July)
4. Sound (July)
5. Magnetic effect of electric current (August)
6. Refraction of Light through lenses
7. Electricity
8. Radioactivity (August)

Internal Assessment: Project / Practical Work (20 Marks)

1. To verify the Ohm's Law and to trace the V-I graph
2. Determination of Resistivity of a Wire
3. Finding the specific heat capacity of a given solid (Mixture Method)

PRE-BOARD EXAM (80 marks)

Full book (All the chapters)

SUBJECT: CHEMISTRY

COURSE OBJECTIVES

- Build mastery of chemical language, equations, and stoichiometry.
- Deepen understanding of periodic trends and chemical bonding.
- Explore acids, bases, salts, and their industrial applications.
- Study electrolysis, metallurgy, and organic chemistry basics.
- Apply gas laws and mole concept to quantitative problems.
- Develop awareness of environmental chemistry and industrial processes.
- Strengthen laboratory skills and analytical thinking for board examinations.

LEARNING OUTCOMES

- Write and balance complex chemical equations.
- Apply mole concept and stoichiometry to solve numerical problems.
- Explain periodic trends and bonding theories.
- Describe properties and reactions of acids, bases, and salts.
- Understand principles of electrolysis and metallurgy.
- Identify hydrocarbons and simple organic compounds.
- Relate chemistry concepts to industry, environment, and everyday life.
- Demonstrate accuracy and safety in laboratory experiments.

Pre-Assessment (80 Marks)

1. Acid, Base and Salt (March-April)
2. Analytical Chemistry (April)
3. Moles Concept (May-June)
4. Chemical Bonding (June-July)

Half-yearly (80 Marks)-

1. Acid, Base and Salt
2. Analytical Chemistry
3. Moles Concept
4. Chemical Bonding
5. Electrolysis (Aug)
6. Study of Compound- Ammonia (Aug)

Pre-Board: (80 Marks) (Full Book as per ICSE)

1. Acid, Base and Salt
2. Analytical Chemistry
3. Moles Concept
4. Chemical Bonding
5. Electrolysis
6. Study of Compound- Ammonia
7. Metallurgy (Aug)
8. Organic Chemistry (Aug-Oct)
9. Periodic Table

10. Study of Compound- H_2SO_4 (Nov)
11. Study of Compound- HCl (Nov)
12. Study of Compound- HNO_3 (Nov)

Pre-Board: (80 Marks) (Full Book as per ICSE)

Internal Assessment: Project / Practical Work (20 Marks)

1. Identification of Gases
2. Identification of acid and basic radicals
3. Identification of Known and Unknown salts

SUBJECT: BIOLOGY

COURSE OBJECTIVES

The course aims to:

- Develop understanding of fundamental biological concepts related to life processes, heredity, environment, and human body systems.
- Acquire knowledge of structure and function of cells, tissues, organs, and organ systems.
- Understand basic principles of genetics, evolution, and reproduction.
- Recognize the interdependence between organisms and environment.
- Develop scientific temper and curiosity through observation and experimentation.
- Learn to interpret biological diagrams, charts, and data.
- Apply biological knowledge to daily life situations such as health, hygiene, and environmental protection.
- Develop awareness about population issues, pollution, and sustainable living.
- Enhance problem-solving and analytical skills through case-based and competency-based questions.
- Develop skills in drawing, labeling, and explaining biological structures.

LEARNING OUTCOMES

At the end of the course, students will be able to:

- Explain key biological processes such as cell division, photosynthesis, respiration, circulation, excretion, coordination, and reproduction.
- Describe structure and functions of major human body systems.
- Apply Mendelian principles to solve basic inheritance problems.
- Interpret and analyze graphs, diagrams, and experimental data.
- Differentiate between related biological concepts using scientific terminology.
- Demonstrate understanding through labelled diagrams and short explanations.

- Identify causes, effects, and preventive measures related to diseases and pollution.
- Demonstrate awareness of reproductive health and population control measures at an informative level.
- Perform simple laboratory activities following proper scientific procedure.
- Show responsible attitude towards health, hygiene, and environment.

Pre- Assessment (80 Marks)

Ch 1. Cell Cycle and Cell Division (March)
Ch 2. Human Chromosomes (April)
Ch 3. Heredity and Genetics (April)
Ch 4. Absorption by roots (December 2025)
Ch 5. Transpiration (December 2025)
Ch 6. Photosynthesis (January 2026)

Half-yearly (80 Marks)

Ch 1. Cell Cycle and Cell Division (March)
Ch 2. Human Chromosome (April)
Ch 3. Heredity and Genetics (April)
Ch 4. Absorption by roots (December 2025)
Ch 5. Transpiration (December 2025)
Ch 6. Photosynthesis (January 2026)
Ch 7. Chemical Coordination in plants (May-June)
Ch 8. The Circulatory System (July)
Ch 9. The Excretory System (July)
Ch 10. Nervous System (August)

Pre- board (80 Marks)

Ch 1. Cell Cycle and Cell Division (March)
Ch 2. Human Chromosome (April)
Ch 3. Heredity and Genetics (April)
Ch 4. Absorption by roots (December 2025)
Ch 5. Transpiration (December 2025)
Ch 6. Photosynthesis (January 2026)
Ch 7. Chemical Coordination in plants (May-June)
Ch 8. The Circulatory System (July)
Ch 9. The Excretory System (July)
Ch 10. Nervous System (August)
Ch 11. Sense Organs (August)
Ch 12. The Endocrine System (September)
Ch 13. Reproductive System (October)
Ch 14. Population- Problems and Control (October)
Ch 15. Human Population (November)

Ch 16. Pollution (November)

Internal Assessment: Project/Practical work (20 marks)

1. Observation of Permanent slides of Mitosis.
2. Experiments demonstrating-
   Experiment 2A: Diffusion
   Experiment 2B (ii): Osmosis
   Experiment 2C: Absorption
3. Experiment 3C: To demonstrate uptake of water and the rate of transpiration using Ganong's potometer.
4. Experiments on photosynthesis
5. Study of structures of human body
6. Identification of different types of blood cells
7. Study of human ear and eye
8. Identification and location of selected endocrine glands
9.

SUBJECT: COMPUTER APPLICATIONS

COURSE OBJECTIVES

- To strengthen the foundation of Object-Oriented Programming concepts.
- To develop programming skills using Java.
- To apply arrays, strings and user-defined methods in problem solving.
- To understand constructors, inheritance and encapsulation.
- To enhance logical and analytical thinking abilities.

LEARNING OUTCOMES

Students will be able to:

- Revise and apply Class IX programming concepts.
- Use arrays (single and double dimensional) effectively.
- Implement string handling methods in Java.
- Write and use user-defined methods.
- Understand constructors and object creation.
- Apply encapsulation and inheritance concepts.

Pre – Assessment: (100 Marks)

Chapter 1 – Revision of Class IX Syllabus (March)
Chapter 2 – Library Classes (April)
Chapter 3 – Arrays (Single Dimensional and Double Dimensional) (April)

Half –yearly (100 Marks)

Chapter 1 – Revision of Class IX Syllabus (March)
Chapter 2 – Library Classes (April)

Chapter 3 – Arrays (Single Dimensional and Double Dimensional (April)
Chapter 5 – User Defined Methods (May)
Chapter 6 – Class as the Basis of all Computation (Objects and Classes) (June)
Chapter 7 – Constructors (June)

Pre-board (100 Marks): Full Book (July –August)

Internal Assessment: Project / Practical Work (100 Marks)
1. Any 50 programs from the above-mentioned syllabus.

SUBJECT: SUPW

COURSE OBJECTIVES

- Make students independent and capable of doing useful work on their own.
- Help students learn how to handle real-life situations practically.
- Help students respect manual work and understand the value of manual work in the digital era.

LEARNING OUTCOMES

- Practice cleanliness and environmental care (e.g., waste management, green energy).
- Create useful products that meet personal or community needs.
- Work effectively in a team and cooperate with others**.**

Half Yearly Examination (100 Marks)-
Project / Assignments
1. Creating Paper Quilling Flowers from recycled dried corn husk.
2. Mandala Art.

Pre-board Examination (100 Marks)-

Project / Assignments

1. Mirror decoration with clay.
2. Making Paper Bags from Old Newspapers.

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