



Cambridge International School Phagwara

(CBSE Affiliation No. 1630723, School No. 20703)



SCIENCE ROAD MAP XII SESSION 2025-26

P.S- While we aim to follow the plan closely, slight changes may occur due to unforeseen holidays or circumstances.



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YEARLY ROAD MAP

Class –XII (2025-26)

Subject - Physics (042)

TOTAL :- 100 MARKS

THEORY EXAM :- 70 MARKS

PRACTICAL EXAM :- 30 MARKS

Month	CHAPTERS COVERED	Assessment
MARCH	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance	CLASS TEST
APRIL	Chapter–3: Current Electricity	CLASS TEST
MAY	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter	UNIT TEST-1 Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance
JULY	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves	UNIT TEST-2 Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism
AUGUST	Chapter–9: Ray Optics and Optical Instruments Chapter- 10 : Wave Optics	MID TERM PRACTICAL Lab manual record Section A Investigatory Project
SEPTEMBER	REVISION	MID TERM EXAMINATION (CHAPTER :- 1 TO 9) (Syllabus covered till mid term 70.5 %)
OCTOBER	Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei	CLASS TEST
NOVEMBER	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	CLASS TEST
DECEMBER	REVISION (FULL SYLLABUS)	PRE BOARD -1
JANUARY	REVISION (FULL SYLLABUS)	PRE BOARD -2

Methodology of teaching : lecture ,discussion ,class/home assignments ,practical work, experimentation , field visit , seminars , project , AV presentations & pen –paper test etc. All the practicals will be done simultaneously with theory.

Practicals will be covered along with the units. Project would be an essential part of evaluation for 3 marks in final examination.

NOTE : The above template may have internal variations due to school functions, activities & vacations , but the curriculum remains the same.

PRACTICAL EVALUATION SCHEME

<u>Topic</u>	<u>Marks</u>
Two experiments one from each section	7+7
Practical record [experiments and activities]	5
One activity from any section	3
Investigatory Project	3
Viva on experiments, activities and project	5
TOTAL	30



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GRADE XII

SESSION (2025-26)

SUBJECT – PHYSICS (042)

YEARLY ASSESSMENT PLAN

Month	ASSESSMENT	SYLLABUS
MAY	UT- 1	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance
JULY	UT- 2	Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism
AUGUST	MID TERM PRACTICAL	Lab manual record Section A Investigatory Project (To be allotted during summer vacations in the month of June)
SEPTEMBER	MID TERM EXAMS	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments
DECEMBER	PRE BOARD -1	FULL SYLLABUS
JANUARY	PRE BOARD -2	FULL SYLLABUS



YEARLY ROAD MAP

Class –XII (2025-26)

Subject - Chemistry (043)

Month	CHAPTERS COVERED (% OF Syllabus covered)	Assessment
March	Chapter–1: Haloalkanes and Haloarenes (8.57%) Chapter–2: Alcohols phenols and ethers (8.57%)	CLASS TEST
April	Chapter–3: Biomolecules (10%)	CLASS TEST
May	Chapter–4: Amines (8.57%) Chapter-5: Electrochemistry (12.85%)	UNIT TEST-1 SYLLABUS Chapter–1: Haloalkanes and Haloarenes Chapter–2: Alcohols phenols and Ether Chapter-3: Biomolecules
June and july	Chapter–6: Aldehyde, Ketones and Acid (11.42%)	UNIT TEST-2 SYLLABUS Chapter–4: Amines Chapter–5:Electrochemistry Chapter-6: Aldehyde ketones
August	Chapter-7: Solutions (10%) Chapter-8: D and F block elements (10%)	CLASS TEST
September	REVISION	MID TERM EXAMS SYLLABUS (80%) Chapter – 1,2,3,4,5,6,7,8
October	Chapter–9: Coordination Compounds (10%) Chapter–10: chemical kinetics (10%)	CLASS TEST
November	REVISION	CLASS TEST
December	REVISION	PREBOARD 1
January	REVISION	PREBOARD 2
February	REVISION	FINAL EXAMS



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Assessment Plan

Subject – Chemistry (043)

GRADE XII (2025-26)

Month	ASSESSMENT	SYLLABUS
MAY	UT- 1	Chapter-1: Haloalkanes and Haloarenes Chapter-2: Alcohols phenols and Ethers Chapter-3: Biomolecules
JULY	UT-2	Chapter-4: Amines Chapter-5: Electrochemistry Chapter-6: Aldehyde & ketones
SEPTEMBER	MID TERM EXAMS	Chapter-1: Haloalkanes and Haloarenes Chapter-2: Alcohols phenols and Ethers Chapter-3: Biomolecules Chapter-4: Amines Chapter-5: Electrochemistry Chapter-6: Aldehyde & ketones Chapter-7: Solutions Chapter-8: D and f Block
DECEMBER	PREBOARD 1	FULL SYLLABUS
JANUARY	PREBOARD 2	FULL SYLLABUS

MATHEMATICS (041)

MONTH	UNIT	TOPIC	ASSESSMENT
MARCH	UNIT II	➤ MATRICES ➤ DETERMINANTS	CLASS TEST
APRIL	UNIT III	➤ CONTINUITY AND DIFFERENTIABILITY ➤ APPLICATION OF DERIVATIVES	CLASS TEST
MAY	UNIT III UNIT V	➤ APPLICATION OF DERIVATIVES ➤ LPP	UT – 1
JUNE	UNIT V	LPP	
JULY	UNIT IV UNIT VI	➤ VECTORS ➤ THREE DIMENSIONAL GEOMETRY ➤ PROBABILITY	UT - 2
AUGUST	UNIT I	➤ RELATION AND FUNCTION ➤ INVERSE TRIGONOMETRIC FUNCTIONS	CLASS TEST
SEPTEMBER		MID TERM EXAM	
OCTOBER	UNIT III	➤ INTEGRALS ➤ APPLICATION OF INTEGRALS ➤ DIFFERENTIAL EQUATIONS	CLASS TEST
NOVEMBER		REVISION	
DECEMBER		PRE BOARD 1	
JANUARY		PRE BOARD 2	

ASSESSMENT DETAILS CLASS - XII (2025-2026)

ASSESSMENT	SYLLABUS	MONTH
UNIT TEST I	➤ MATRICES ➤ DETERMINANTS ➤ CONTINUITY AND DIFFERENTIABILITY	MAY
UNIT TEST II	➤ CONTINUITY AND DIFFERENTIABILITY ➤ APPLICATION OF DERIVATIVES ➤ LPP	JULY
INTERNAL ASSESSMENT	➤ ACTIVITY TEST, VIVA	AUGUST
MID TERM EXAM	➤ MATRICES ➤ DETERMINANTS ➤ RELATION AND FUNCTION ➤ INVERSE TRIGONOMETRIC FUNCTIONS ➤ CONTINUITY AND DIFFERENTIABILITY ➤ APPLICATION OF DERIVATIVES ➤ VECTORS ➤ LPP ➤ THREE DIMENSIONAL GEOMETRY ➤ PROBABILITY	SEPTEMBER
INTERNAL ASSESSMENT	➤ ACTIVITY TEST, VIVA	NOVEMBER
PRE BOARD I	➤ FULL SYLLABUS	DECEMBER
PRE BOARD II	➤ FULL SYLLABUS	JANUARY

SUBJECT – BIOLOGY

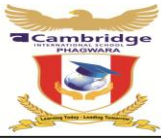
MONTH	UNIT	CHAPTER	ASSESSMENT
MARCH	VI	➤ SEXUAL REPRODUCTION IN FLOWERING PLANTS ➤ HUMAN REPRODUCTION	CLASS TEST
APRIL	VI/VII	➤ REPRODUCTIVE HEALTH ➤ PRINCIPLES OF INHERITANCE AND VARIATION	CLASS TEST
MAY	VII	➤ PRINCIPLES OF INHERITANCE AND VARIATION ➤ MOLECULAR BASIS OF INHERITANCE	UNIT TEST I
JUNE	-----	-----	-----
JULY	VII/VIII	➤ MOLECULAR BASIS OF INHERITANCE ➤ EVOLUTION	UNIT TEST II
AUGUST	VII	➤ HUMAN HEALTH AND DISEASE ➤ MICROBES IN HUMAN WELFARE	CLASS TEST
SEPTEMBER		REVISION	MID TERM EXAM
OCTOBER	IX	➤ BIOTECHNOLOGY –PRINCIPLES AND PROCESSES ➤ BIOTECHNOLOGY AND ITS APPLICATIONS	CLASS TEST
NOVEMBER	X	➤ ORGANISMS AND POPULATIONS ➤ ECOSYSTEM ➤ BIODIVERSITY AND ITS CONSERVATION	CLASS TEST
DECEMBER		FULL SYLLABUS REVISION	PRE BOARD I
JANUARY		FULL SYLLABUS REVISION	PRE BOARD II

EVALUATION SCHEME FOR PRACTICAL

Evaluation Scheme	Marks
One Major Experiment Part A	5 Marks
One Minor Experiment Part A	4 Marks
Slide Preparation Part A	5 Marks
Spotting Part B	7 Marks
Practical Record + Viva Voce	4 Marks
Project Record + Viva Voce	5 Marks
Total	30 Marks

ASSESSMENT DETAILS (2025-26)

MONTH	ASSESSMENT	SYLLABUS
MAY	UNIT TEST I	➤ SEXUAL REPRODUCTION IN FLOWERING PLANTS ➤ HUMAN REPRODUCTION
JULY	UNIT TEST II	➤ REPRODUCTIVE HEALTH ➤ PRINCIPLES OF INHERITANCE AND VARIATION
AUGUST	MID TERM PRACTICAL	➤ LAB MANUAL RECORD ➤ INVESTIGATORY PROJECT (TO BE ALLOTTED IN SUMMER VACATION)
SEPTEMBER	MID TERM	➤ SEXUAL REPRODUCTION IN FLOWERING PLANTS ➤ HUMAN REPRODUCTION ➤ REPRODUCTIVE HEALTH ➤ PRINCIPLES OF INHERITANCE AND VARIATION ➤ MOLECULAR BASIS OF INHERITANCE ➤ EVOLUTION ➤ HUMAN HEALTH AND DISEASE
DECEMBER	PREBOARD 1	FULL SYLLABUS
JANUARY	PREBOARD 2	FULL SYLLABUS



SYLLABUS + ROAD MAP + ASSESSMENT PLAN

GRADE XII 2025-26

ENGLISH CORE (301)

SYLLABUS

Flamingo- Prose-

1. THE LAST LESSON
2. LOST SPRING
3. DEEP WATER
4. THE RATTRAP
5. INDIGO
6. POETS AND PANCAKES
7. THE INTERVIEW PART 1 AND II
8. GOING PLACES

Poetry-

1. MY MOTHER AT SIXTY SIX
2. KEEPING QUIET
3. A THING OF BEAUTY
4. A ROADSIDE STAND
5. AUNT JENNIFER'S TIGERS

Vistas-

1. THE THIRD LEVEL
2. THE TIGER KING
3. JOURNEY TO THE END OF THE EARTH
4. THE ENEMY
5. ON THE FACE OF IT
6. MEMORIES OF CHILDHOOD

Writing- Short-

1. NOTICE WRITING
2. FORMAL INVITATIONS AND REPLIES
3. INFORMAL INVITATIONS AND REPLIES

Long-

1. LETTER TO EDITOR
2. JOB APPLICATION & BIO-DATA
3. ARTICLE WRITING
4. REPORT WRITING

S.No.	Month	<u>CHAPTERS TO BE COVERED</u>	
1.	MARCH	FLAMINGO- VISTAS- WRITING-	INDIGO THE THIRD LEVEL FORMAL INVITATIONS AND REPLIES
2.	APRIL	FLAMINGO- VISTAS- POEM- WRITING –	POETS AND PANCAKES THE ENEMY MY MOTHER AT SIXTY SIX LETTER TO EDITOR
3.	MAY	FLAMINGO- WRITING –	DEEP WATER INFORMAL INVITATIONS AND REPLIES
UT1- <u>READING:</u> READING COMPREHENSION <u>WRITING-</u> INFORMAL INVITATIONS AND REPLIES, LETTER TO EDITOR <u>FLAMINGO:</u> INDIGO, THE ENEMY, MY MOTHER AT SIXTY SIX <u>VISTAS:</u> THE THIRD LEVEL			
4.	JUNE	FLAMINGO-	THE LAST LESSON
5.	JULY	FLAMINGO - POEMS- WRITING- VISTAS -	THE RATTRAP KEEPING QUIET, AUNT JENNIFER’S TIGERS NOTICE WRITING, JOB APPLICATION AND BIODATA ON THE FACE OF IT
UT2- <u>READING:</u> READING COMPREHENSION <u>WRITING-</u> NOTICE WRITING, JOB APPLICATION AND BIODATA <u>FLAMINGO:</u> THE LAST LESSON, THE RATTRAP, KEEPING QUIET <u>VISTAS-</u> ON THE FACE OF IT			
6.	AUGUST	FLAMINGO- POEMS- VISTAS- WRITING –	LOST SPRING , GOING PLACES A ROADSIDE STAND JOURNEY TO THE END OF THE EARTH ARTICLE WRITING
SEPTEMBER 2025 MIDTERM - SYLLABUS COVERED UPTIL THEN.			
7.	OCTOBER	FLAMINGO- VISTAS- POEM- WRITING –	THE INTERVIEW PART 1 AND II THE TIGER KING, MEMORIES OF CHILDHOOD A THING OF BEAUTY REPORT WRITING
8.	NOVEMBER	REVISION	
DECEMBER- PREBOARD 1			
JANUARY- PREBOARD 2			
Deleted topics: FLAMINGO- Poem- An Elementary School Classroom in a Slum VISTAS- Evans Tries an O-Level, Should Wizard Hit Mommy? WRITING- Poster, Advertisements, Speech, Debate, Business Letters			