



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.



Cambridge International School

Phagwara

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



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



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



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 ALLOTED 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	CHAPTERS TO BE COVERED	
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-			
READING: READING COMPREHENSION			
WRITING- INFORMAL INVITATIONS AND REPLIES, LETTER TO EDITOR			
FLAMINGO: INDIGO, THE ENEMY, MY MOTHER AT SIXTY SIX			
VISTAS: 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-			
READING: READING COMPREHENSION			
WRITING- NOTICE WRITING, JOB APPLICATION AND BIODATA			
FLAMINGO: THE LAST LESSON, THE RATTRAP, KEEPING QUIET			
VISTAS- 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			