

Annual Syllabus (2022-23)

Class – XII Science

Subject: English

Month	Book	Portion	SEA
April	Flamingo	1. The Last Lesson 2. Lost Spring 3. Deep Water 1. My Mother at Sixty Six- poem	Comment on the importance of Mother Tongue
May(15 Days)	Vistas Writing	1.The Third Level 4. The Enemy Notice writing	Speaking assessment

Periodic test – 1: Notice writing

Flamingo Ch 1, 2 &3, My Mother at Sixty - Poem

Month	Book	Portion	SEA
July	Flamingo Writing	2.An Elementary School Classroom in a Slum-Poem 3.Keeping Quiet- Poem Letter writing	Speaking Assessment
August	Writing Flamingo	Classified Advertisement, Article Writing 4. The Rattrap	Writing test
September	Flamingo	5. Indigo	Listening test

Half yearly exam: Vistas – 1 and 4

Flamingo – 1,2 &3 Poems – 1,2&3

Notice writing, Letter writing

Month	Book	Portion	SEA
October	Flamingo Writing Vistas	4.A Thing of Beauty – Poem Formal and Informal Invitation 5. Should Wizard Hit Mommy?	Listening test
November		Revision 6.Aunt Jennifer's Tiger – Poem	Worksheet

PB 1: Vistas – 1 and 4; Flamingo – 1, 2 & 3 ;Poems – 1,2&3

Notice writing, Classified Advertisement, Letter writing, Article Writing

Month	Book	Portion	SEA
December	Vistas Writing	6.On the Face of it Report Writing	Project

Periodic Test- 2: Flamingo – Ch 4&5, Poem- Ch – 4, Vistas -Ch 5

Month	Book	Portion	SEA
January	Vistas Writing	7.Evans Tries an O Level Letterwriting	Project

PB 2: Flamingo – 4&5, Poem – 4&5

Vistas – 5, 6 &7

Report Writing, Letter writing, Invitations

Subject- Mathematics

MONTH	BOOK	CHAPTER NAME
April	NCERT	Ch-5 Continuity and Differentiability Ch-6 Application of Derivatives
May	NCERT	Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions
July	NCERT	Ch-3 Matrices Ch-4 Determinants
August	NCERT	Ch-12 Linear Programming Activities
October	NCERT	Revision for Term I Ch-7 Integrals
Unit Test I		
Portion	Ch-1 Relations and Functions Ch-5 Continuity and Differentiability Ch-6 Application of Derivatives	
First Term Examinations		
Portion	Ch-1 Relations and Functions Ch-2 Inverse Trigonometric Functions Ch-3 Matrices Ch-4 Determinants Ch-5 Continuity and Differentiability Ch-6 Application of Derivatives Ch-12 Linear Programming	

November	NCERT	Ch-7 Integrals Contd..... Ch-8 Applications of the Integrals
December	NCERT	Ch-9 Differential Equations Ch-10 Vectors Ch-11 Three Dimensional Geometry
January	NCERT	
February	Sample paper	Revision and activities and Project
UNIT Test – 2		
Portion	Ch-7 Integrals Ch-8 Applications of Integrals	
Second Term examinations		
Portion	Ch-7 Integrals Ch-8 Applications of Integrals Ch-9 Differential Equations Ch-13 Probabilities Ch-10 Vectors Ch-11 Three Dimensional Geometry Ch-13 Probabilities	
	Activities based on Lab manual	

Subject: Physics

Month	Book	Portion	Practical
April	NCERT	Chapter 1- Electric Charges & Fields, Chapter 2 - Electrostatic Potential & Capacitance	
May(15 Days)	NCERT	Chapter 3- Current Electricity	1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

Periodic test – 1: Ch – 1, 2 &3

Month	Book	Portion	Practical
July	NCERT	Chapter 3 - Current Electricity(Cont.) Chapter 4 - Magnetic Effect of Current Chapter 5 -Magnetism & Matter	2. To find resistance of a given wire / standard resistor using metre bridge. 3. To verify the laws of combination (series) of resistances using a metre bridge. 4. To compare the EMF of two given primary cells using potentiometer.
August	NCERT	Chapter 6 - Electromagnetic Induction Chapter 7 - Alternating Current	5. To determine the internal resistance of given primary cell using potentiometer. 6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 7. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same
September	NCERT	Revision & Sample Papers	

Half yearly: Ch – 1 to 7.

Month	Book	Portion	Practical
October	NCERT	Chapter 8 Electromagnetic Waves, Chapter 9 - Ray Optics & Optical Instruments	1. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex mirror, using a convex lens
November	NCERT	Chapter 9 - Ray Optics & Optical Instruments(Cont.) Chapter 10 - Wave Optics	3. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 4. To find the focal length of a concave lens, using a convex lens.

Pre – board 1: Term 1 Full syllabus

December	NCERT	Chapter 10 - Wave Optics(Cont.) Chapter 11 - Dual nature of Radiation and matter	5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope.
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Periodic test – 2: Ch – 8 & 9

Month	Book	Portion	Practical
January	NCERT	Chapter 12 - Atom Chapter 13 - Nuclei, Chapter 14 - Semiconductor Devices	7. To find refractive index of a liquid by using convex lens and plane mirror. 8. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.

			9. To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage.
February	NCERT	Revision & Sample papers	

Pre-board 2: Term – 2 Full syllabus

Subject: Artificial Intelligence

Month	Book	Portion	SEA
April	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES- Unit1:CommunicationSkillsV SS-Python Basic and Advanced 	Activities from textbooks with updated record in online portfolio.
May	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 1 : Communication Skills V SS- Unit 1: Capstone Project 	Activities from textbooks with updated record in online portfolio
July	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 1 : Communication Skills V SS- Unit 1: Capstone Project 	Activities from textbooks with updated record in online portfolio

Periodic test – 1: ES-Unit 1; SS-Unit 1

August	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 2: Self Management Skills V SS-Unit 1: Capstone Project 	Activities from textbooks with updated record in online portfolio
September	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES- Unit 2: Self Management Skills V SS-Unit 2 : Model Lifecycle 	Activities from textbooks with updated record in online portfolio

Half yearly exam: ES-Unit 1,2; SS-Unit 1,2

Month	Book	Portion	SEA
October	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 3: ICT Skills V SS -Unit 2: Model Lifecycle 	Activities from textbooks with updated record in online portfolio
November	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 3: ICT Skills V SS -Unit 2: Model Lifecycle 	Activities from textbooks with updated record in online portfolio

Pre Board – 1: ES-Unit 1,2,3; SS-Unit 1,2

December	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 4: Entrepreneurship Skills V SS – Unit 3 : Storytelling through data 	Activities from textbooks with updated record in online portfolio
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Periodic test -2:ES-Unit 4; SS-Unit 3

Month	Book	Portion	SEA
January	<ul style="list-style-type: none"> AI Curriculum Handbook CBSE & Intel Employability Skills IV NCERT 	<ul style="list-style-type: none"> ES-Unit 5: Green Skills V SS – Unit 3: Storytelling through data 	Activities from textbooks with updated record in online portfolio

Pre Board - 2: ES-Unit 4, 5 ; SS-Unit 3

Subject: Physical Education

Month	Portion
April	Ch-1 Planning In Sports Ch-2 Sports & Nutrition
May	Ch- 5 Children & women in Sports
July	Ch-6 Test & measurements in sports Revision (Ch- 1 to 4) Unit Test -1 Portion (Ch-1 & 2)
August	Ch-8 Biomechanics & sports Ch-3 Yoga & Lifestyle
September	Revision Half Yearly Examination Portion(Ch-1,2,5,6,8) Ch-4 Physical Education And sports for CWSN
October	Ch-7 Physiology & Sports
November	Ch-9 Psychology & Sports
December	Ch-10 Training in Sports
January	Revision Pre-Board Examination
February	Revision
March	Board Examination

Subject: Chemistry

Month	Book Name	Chapter No. & Name
April	NCERT	Ch-1 Solidstate
May	NCERT	Ch-2 Solution Ch-3 P Block elements

Periodic Test-1: Ch-1, 2

July	NCERT	Ch – 3 Continue and revision
August	NCERT	Ch-10 Haloalkanes and haloarenes
September	NCERT	Ch-11 Alcohol phenols ethers Ch-14 Biomolecules

Half yearly : Ch-1, 2, 3, 10, 11, & 14

October	NCERT	Revision and Practical of first term based on NCERT
November	NCERT	Ch-3 Electrochemistry Ch-4 Chemical kinetics Ch – 5 Principle and Isolation of element

Pre – board 1:

December	NCERT	Ch-6 Surface chemistry Ch-8 d and f block elements
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Periodic Test 3:

January	NCERT	Revision/Practical based on NCERT syllabus Periodic Test-2(Last 15 Days)
February	NCERT	Ch-9 Coordination Ch-12 aldehyde and ketones Ch-13 amines

Pre – board 2:

Subject: Biology

Month	Book	Portion	SEA
April	NCERT	1. Reproduction in organisms, 2. Reproduction in plants. 3. Human reproduction.	*Observe permanent slide of gametes under microscope * Textbook questions
May (15 Days)		4. Reproductive health.	Class test

Periodic test – 1: Ch 1 to 4

Month	Book	Portion	SEA
July	NCERT	5. Principles of inheritance 6. Molecular basis of inheritance.	*Isolation of DNA from plant materials. *Sample paper questions
August	NCERT	7. Evolution 8. Human health and disease	Prepare models of homologous and analogous organs.
September	NCERT	9. Strategies for enhancement in food production 10. Microbes in human welfare	Detect the presence of microbes in a culture medium.

Periodic Test 2: Ch – 5 to 10

Month	Book	Portion	SEA
October	NCERT	11. Biotechnology principles 12. Biotechnology its applications	Unit test Textbook questions
November	NCERT	13. Organism and populations	Observe the difference between habitat and niche

Pre – Board 1: Whole Syllabus of Term 1

December		14. Ecosystem	NCERT exercise
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Periodic test – 3: 11 to 14

Month	Book	Portion	SEA
January	NCERT	15. Biodiversity 16. Environmental issues	Identify presence of pollutants on leaf surface
February	NCERT	Revision and practice of important concepts of each chapter.	Sample paper discussion

Preboard 2: Whole syllabus of Term-2