



GATEWAY

INTERNATIONAL SCHOOL



ANNUAL LEARNING PROGRESSION

Grade-XII

Session 2025-26



GATEWAY

INTERNATIONAL SCHOOL

Month-wise Syllabus for Session (2025-2026)

Class- XII

Subject- ENGLISH CORE (301)

NCERT TEXTBOOKS: 1. Flamingo

2. Vistas

S.N.	Month	FLAMINGO	Activities	SYLLABUS Cyclic Test /Half Yearly/Yearly
1	APRIL	Introduction to the Curriculum & Question paper design The Last Lesson Poem: My Mother at Sixty Six Lost Spring Deep Water The Third Level	Notices Exercise in Reading Comprehension	
2	MAY	The Rattrap Indigo Poem: Keeping Quiet The Tiger King	Invitations	IA 1: The Last Lesson Poem: My Mother at Sixty Six Lost Spring Deep Water The Third Level
3	JULY	Poets and Pancakes Poem: A Thing of Beauty The Enemy On the Face of It	Invitations ASL Practice	
4	AUGUST	Going Places Poem: Aunt Jennifer 's Tigers	Letter to the Editor, Job Application	IA 2: The Rattrap, Indigo Poem: Keeping Quiet The Tiger King, Invitations,

5	SEPTEMBER	Half Yearly Examination		The Last Lesson Poem: My Mother at Sixty Six Lost Spring Deep Water The Third Level The Rattrap Indigo Poem: Keeping Quiet The Tiger King Poets and Pancakes Poem: A Thing of Beauty The Enemy On the Face of It Going Places Poem: Aunt Jennifer 's Tigers Notices Invitations Formal Letter, Job Application, Article, Report writing
6	OCTOBER	The Interview Poem: A Roadside Stand Journey to the end of the Earth Memories of Childhood		
7	NOVEMBER	Revision& I Pre-Board		Complete Syllabus done from April- October
8	DECEMBER	Revision& I Pre-Board		
9	JANUARY	Revision& II Pre-Board	Revision	
10	FEBRUARY	CBSE Board Examination		
11	MARCH	CBSE Board Examination		

Subject-PHYSICS

Month	Chapters	Activities	Assessment
April	Ch-1: Electric Charges and Fields Ch-2: Electrostatic Potential and Capacitance	P1 -To find resistance of a given wire / standard resistor using meter bridge. A1 -To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.	-
May	Ch-3: Current Electricity Ch-4: Moving Charges and Magnetism	P2 -To verify the laws of combination (series) of resistances using a metre bridge. A2 -To assemble the components of a given electrical circuit.	<u>IA-I Syllabus:</u> Ch- 1,2,3
July	Ch-5: Magnetism and Matter Ch-6: Electromagnetic Induction Ch-13: Semiconductor Electronics	P3 -To convert the given galvanometer into a voltmeter of desired range and to verify the same. A3 - To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.	
August	Ch-7: Alternating Current Ch-8: Electromagnetic Waves Ch-11: Dual Nature of Radiation and Matter	P4 -To find the frequency of AC mains with a sonometer. A4 -To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.	<u>IA-II Syllabus:</u> Ch- 4,5, 6
September	Revision	P5 -To find the focal length of a concave lens, using a convex lens. P6 -To find the focal length of a convex mirror, using a convex lens.	<u>Half Yearly Syllabus:</u> Ch-1, 2, 3, 4, 5, 6, 7, 8,13

October	Ch-9: Ray Optics and Optical Instruments Ch-10: Wave Optics	P7 -To determine angle of minimum deviation for a given prism by plotting a graph. A5 -To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.	
November	Ch-12: Atoms & Nuclei	P8 -To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias. A6 -To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.	<u>Pre-Board-1</u> (Full Syllabus)
December	Revision and Practice for Practical Exam		<u>Pre-Board-2 Full Syllabus</u>
January	Revision		
February	Revision		

Subject : Chemistry

S. No	Month	Unit/ Chapter/ Topic	Practical/Activity	Syllabus Internal Assessment / Half Yearly/ Annual
1.	April	Ch 1. Solution Ch.2 Electrochemistry	<ul style="list-style-type: none"> • Volumetric Analysis KMnO₄ vs Mohr's Salt Solution • Volumetric Analysis KMnO₄ vs. Oxalic Acid Solution 	<u>IA-I Syllabus</u> 1,2
2.	May	Ch.2 Electrochemistry continued Ch. 3 Chemical Kinetics Ch.4 d & f Block elements	<ul style="list-style-type: none"> • Effect of concentration and temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid. 	<u>IA-II Syllabus</u> 3,4,5
3.	July	Ch. 5 Cordination compound Ch. 6 Haloalkane and Haloarenes	<ul style="list-style-type: none"> • Qualitative analysis to study the properties of the compounds. (i) Chromyl chloride test (ii) Nessler's reagent test (iii) Salt analysis for detection of - Mn²⁺, Zn²⁺, Cr³⁺, CO²⁺, etc. ions • Problem solving activity based on Cordination Compounds Nomenclature • Question Exercise related to I-Effect, Resonance, H-Effect, Types of reaction 	
4.	August	Ch.7 Alcohol, Phenols and Ethers Ch.8 Aldehyde ketones and carboxylic acids	Test for the Functional Groups Present in Organic Compounds <ul style="list-style-type: none"> • Alcoholic • Phenolic • Aldehydic 	<u>Half Yearly Syllabus</u> Ch- 1,2,3,4,5,6

			<ul style="list-style-type: none"> • Ketonic • Carboxylic acid 	
5.	September	Revision Half yearly		
6.	October	Ch.9 Amines Ch. 10 Biomolecules	Test for the Functional Groups Present in Organic Compounds <ul style="list-style-type: none"> • Amino (primary) groups. • Characteristic Tests Tests of Carbohydrates, Fats and Proteins in Pure Samples and Their Detection in Given Food Stuffs.	
7.	November	Revision		
8.	December	Revision		
9.	January	Revision		

Subject - Mathematics (core)

Sr. No	Month	Topic	Activities in maths lab records	IA /Half Yearly /yearly
1	March	Ch1. Relations & Functions Ch2. Inverse Trigonometric functions	1. To demonstrate a function which is not one-one but is onto. 2. To demonstrate a function which is one-one but not onto.	
2	April	Ch3. Matrices Ch4. Determinants	Project and demonstration model on matrices	
3.	May	Ch5. Continuity & Differentiation	3. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.	IA – I : Ch 1,2,3,4,5
4.	July	Ch6 .Application of Derivatives Ch7. Integration	4. To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner.	
5.	August	Ch8. Application of Integral Ch9. Differential Equations	.	IA – 2 : Ch 6,7,8,9
6.	September	Revision		Half yearly exam Ch1,2,3,4,5,6,7,8,9
7.	October	Ch10. Vector Calculus Ch 11 Three dimensional geometry Ch12. Linear Programming Ch13. Probability	5.To measure the shortest distance between two skew lines and verify it analytically. 6.To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice	
8.	November	Revision	Complete syllabus	Pre board 1
9.	December	Revision	Complete syllabus	Pre board 1I
10	January	Annual Practicals		
11.	February	Revision		Annual exam

Subject- Computer Science

S. No	Month	Content	Activity/Practical	Assessment
1	March	Bridge Classes Ch-1 Python Revision Tour		
2	April	Ch-2 Python Revision TourII Ch-3 Working with Functions	Programs for lists, strings and dictionaries	
3	May	Ch-4 Exception Handling Ch-5 File Handling	Programs related to user defined functions	<u>IA-I Syllabus:</u> Ch-1 Python Revision Tour Ch-2 Python Revision Tour-II Ch-3 Working with Functions
4	June		Practical file for Python	
5	July	Ch-10 Relational Databases Ch-11 Simple Queries in SQL	Programs for Exception Handling	
6	August	Ch-7 Data Structures	Programs for Stacks	<u>IA-II Syllabus:</u> Ch-3 Working with Functions Ch-4 Exception Handling Ch-5 File handling
7	September	Ch-8 Computer Networks-I	Practical File and Project File	Half Yearly Syllabus- Theory & Practical - Ch-1 Python Revision Tour Ch-2 Python Revision Tour-II Ch-3 Working with Functions Ch-4 Exception Handling Ch-5 File handling Ch-7 Data Structures-I Ch-10 Relational Databases Ch-11 Simple Queries in SQL
8	October	Ch-13 Grouping Records, Joins in SQL Ch – 14 Interface with SQL Ch-9 Computer Networks-II		
9	November	Ch-12 Table Creation and Data Manipulation Commands		<u>Pre-Board-1</u> (Full Syllabus)
10	December	Revision		<u>Pre-Board- 2</u> (Full Syllabus)

Physical Education

S.No	Month	Unit/Chapters	Practical	Assessment
1.	April	Ch-1 Management of sporting events Ch-2 Children & women in sports	1609- meter race	
2.	May	Ch-3 Yoga as preventive measure for lifestyle disease	Yoga	<u>I A -1 Syllabus</u> Ch-1 Management of sporting events Ch-2 Children & women in sports Ch-3 Yoga as preventive measure for lifestyle disease
3.	June	Practical File Revision of Ch 1-3		
4.	July	Ch-4 Physical education & sports for CWSN (Children with special needs – Divyang) Ch-5 Sports & Nutrition	Yoga	
5.	August	Ch-6 Test& measurement in sports. Ch-7 Physiology & Injuries in sports. Ch- 8 Biomechanics & sports .		<u>I A -2 Syllabus</u> Ch-4 Physical education & sports for CWSN (Children with special needs – Divyang) Ch-5 Sports & Nutrition Ch-6 Test& measurement in sports.

				Ch-7 Physiology & Injuries in sports
6.	September	Revision		<u>Half Yearly Syllabus</u> <u>Theory:</u> Ch-1 Management of sporting events Ch-2 Children & women in sports Ch-3 Yoga as preventive measure for lifestyle disease Ch-4 Physical education & sports for CWSN (Children with special needs – Divyang) Ch-5 Sports & Nutrition <u>Practical:</u> Athletics, Yoga
7.	October	9. Psychology & Sports 10. Training in Sports.		<u>I A -3 Syllabus</u> Ch- 8 Biomechanics & sports . 9. Psychology & Sports 10. Training in Sports
8.	November	All chapter's revision		<u>Pre board -1 Syllabus</u> Full Syllabus
9.	December	Revision		<u>Pre board -2 Syllabus</u> Full Syllabus
10.	January	Revision		

Subject: Psychology

S.No	MONTH	UNITS/CHAPTERS	ACTIVITY	EXAM
1	April –May	Ch-1: Variations in Psychological attributes. Ch-2: Self and personality	1)Self – Report 2)Personality Spectrum	I A – 1 CH –1,2
2	July-August	Ch-3: Meeting life challenges Ch-4: Psychological Disorder	3) Progressive Relaxation Technique 4) Coping with Stress	I A – 2 CH – 3,4
3	September	Ch-5: Therapeutic Approaches Ch-6: Social Influence and group process	5) Systematic desensitization 6) Token Economy	S A - 1 & Half yearly CH – 1,2,3,4,5
4	October	Ch-7: Attitude and social cognition	7) Friendship Framework	
5	November			PB-1 Full Syllabus
6	December	All unit revision and practical		PB-2 Full Syllabus
7	January			Practical
8	Feb	Unit/ Chapter number 1-10 and Full syllabus.		Annual exam

Subject: Painting

S.No	Month	Chapters	Activities	Assessment
1	April	1. The Rajasthani School of Miniature Painting	sketching bani thani or draperies nature and object study.	-
2	May	2. The Pahari School of Miniature painting	miniature art	<u>IA-I Syllabus:</u> Ch- 1,2
3	July	3. The Mughal School of Miniature Painting	Composition (Imaginative Painting) Watercolour and Poster colour	
4	August	4. The Deccan School of Miniature Painting	Creative Composition Acrylic/Poster	<u>IA-II Syllabus:</u> Ch- 3,4
5	September	Revision	Craft Work	<u>Half Yearly Syllabus:</u> Ch-1, 2, 3, 4
6	October	5. The Bengal School of Painting 6. The Modern Trends in Indian Art	Still life Acrylic	
7	November	Revision	Nature Study Pencil and pen Portfolio Assessment	<u>Pre-Board-1</u> (Full Syllabus)
8	December	Revision and Practice for Practical Exam		<u>Pre-Board-2 Full Syllabus</u>
9	January	Revision		
10	February	Revision		

Subject- Biology

Sr. No.	Month	Topics/Chapters	Activities	Subject Enrichment	SYLLABUS Cyclic Test /Half Yearly/Yearly
1	April	Ch-2 Reproduction in flowering plants	Pollen tube germination	Studying various false and true fruits in the Gateway Campus in the form of an exploratory walk.	-
2	May	Ch-3 Human reproductio n Ch- 4 Reproducti ve Health	T.S Testis T.S. Ovary T.S blastula, gastrula	Conducting an In-house census for the population and understanding the sex ratio of GIS.	<u>IA-I Syllabus:</u> Ch-2,3,4
3	July	Ch- 5 Principles of Inheritance and Variation	Pedigree analysis for various genetic disorders Study of Mendelian characters	Carrying out survey in the locality and neighbourhood for understanding various genetic disorders.	
4	August	Ch- 6 Molecular Basis of Inheritance Ch-8 Human Health and Diseases Ch-10 Microbes in Human Welfare	Isolation of DNA from different sources Study specimens of different disease- causing MOs	A visit to the school of hydroponics understanding the Science behind food grain production and future food challenges and how can they be solved?	<u>IA-II Syllabus:</u> Ch- 5, 6, 8,
5	September	Revision	Quadrat Method to study		<u>Half Yearly Syllabus:</u> Ch-2, 3, 4, 5, 6, 8, 10

			population density and frequency.		
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6	October	Ch-7 Evolution Ch-11 Biotechnology - Principles and processes Ch-12 Biotechnology and its Application	Spotting of different specimens	Visit to the Department of Biotechnology of any nearby reputed University.	
7	November	Ch-13 Organisms and Populations Ch-15 Biodiversity and its Conservation	Investigatory Project		<u>Pre-Board-1</u> (Full Syllabus)
8	December	Revision and Practice for Practical Exam			<u>Pre-Board-2 Full Syllabus</u>
9	January	Revision and BOARD Practical			<u>Pre-Board-2</u>
10.	February	Revision			