

NOIDA PUBLIC SCHOOL
A-78, SECTOR 23, NOIDA
ANNUAL SYLLABUS (2025-26)
CLASS – XII SCIENCE

SUBJECT - ENGLISH			
MONTH	23 SYLLABUS		NO. OF EXPECTED PERIODS
APRIL	READING SKILLS CREATIVE WRITING SKILLS TEXTBOOK : (1) Flamingo (2) Vistas	1. Comprehension 1. Notice 2. Formal invitation Chapter 1 The Last Lesson Poem 1 My Mother At Sixty Six Chapter 1 The Third Level	25-30
MAY	READING SKILLS CREATIVE WRITING SKILLS TEXTBOOK (1) Flamingo (2) Vistas	1. Comprehension 1. Informal Invitation 2. Reply to Invitations Chapter 2. Lost Spring Chapter 3. Deep water Poem 2. Keeping Quiet Chapter 2. The Tiger King	25-30
JULY	READING SKILLS CREATIVE WRITING SKILLS TEXTBOOK (1) Flamingo (2) Vistas	1. Comprehension 1. Letter to the Editor Chapter 4. The Rattrap Chapter 5. Indigo Poem 3. A Thing of Beauty Chapter 2. The Tiger King	30-32
UT-1 Syllabus Comprehension Notice, Formal Invitations and replies, Letter to Editor, Article writing Literature: Lost Spring, keeping Quiet, The Tiger King,			
AUGUST	READING SKILLS CREATIVE WRITING SKILLS TEXTBOOK (1) Flamingo (2) Vistas	1. Case- Based Comprehension 1. Letter – Job Application Chapter 6. Poets and Pancakes Chapter 7. The Interview Poem 4. A Roadside Stand Chapter 3. Journey to the end of the Earth	30-32
SEPTEMBER	REVISION		

Half Yearly Examination Syllabus:

Comprehension, Notice, Formal/Informal Invitations, Formal/Informal replies, Letter to editor, Job application, Article and Report Writing,

LITERATURE:

The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo, A Thing of Beauty, The Tiger King, Journey to the end of earth, The Enemy

OCTOBER	READING SKILLS CREATIVE WRITING SKILLS	1. Case- Based Comprehension 1. Report Writing	32-`36
	TEXTBOOK (1) Flamingo (2) Vistas	Chapter 8 Going Places Poem 5 Aunt Jennifer’s Tigers Chapter 4 The Enemy Chapter 5 On the face of It (Dramatization) Chapter 6. Memories of Childhood	
UT2 READING: Unseen Passage WRITING: Report Writing LITERATURE: FLAMINGO: Indigo(ch. 5) Poets and pancakes ((Ch. 6) A Roadside Stand (Poem) VISTAS: On the face if it (Ch.6) Memories of Childhood (Ch. 7)			
NOVEMBER	REVISION for Pre- Board 1		
Pre- Board 1 Examination: Full Syllabus			
DECEMBER Pre-Board 2 Examination	REVISION for Pre- Board 2 Full Syllabus		
JANUARY	Pre- Board 2		
FEBRUARY	Revision		

SUBJECT - PHYSICS

MONTH	MONTHWISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	Chapter 1. Electric Charges and Fields Chapter 2. Electrostatic Potential and Capacitance	35

MAY	Chapter 2. Electrostatic Potential and Capacitance Chapter 3. Current Electricity Practical work :- 1. To find the resistivity of the wire 2. To assemble a household circuit	20
JULY	Chapter 3. Current Electricity Chapter 4. Moving Charges and Magnetism Chapter 5. Magnetism and Matter Practical work :- 1. To find the resistance of wire/ unknown device (series and parallel) using a metre bridge. 2. To find the resistance of the galvanometer by half deflection method.	35
Unit Test 1 - Chapter 1 and 2		
AUGUST	Chapter 6. Electromagnetic Induction Chapter 7. Alternating Current Chapter 8. Electromagnetic Waves Practical work :- 1. To draw the diagram of a given open circuit and Mark the components are not connected in proper order.	30-32
SEPTEMBER	Chapter 9. Ray Optics Term 1 Exam (Chapter 1,2,3,4,5,6,7) Practical work :- 1. To find the value of V for different values of the U of Concave mirror and find its focal length. 2. To find the focal length of a Convex lens by plotting a graph between U and V.	35
Term 1 Exam - Chapter 1,2,3,4,5,6,7		
OCTOBER	Chapter 10. Wave Optics Chapter 11. Dual Nature of Radiation and Matter	30-32

	Chapter 12. Atoms Chapter 13. Nuclei Practical work :- 1. To observe diffraction of light due to thin slit.	
Unit Test 2 - Chapter 8 and 9		
NOVEMBER	Chapter 14. Semiconductor Practical Work :- 1. To draw I-V characteristics curve of P-n junction diode. Revision Chapter 1,2,3 4,5,6,7 Pre Board -I Complete Syllabus	30
Pre Board -I Complete Syllabus		
DECEMBER	Revision Chapter 8,9, 10,11,12,13,14 Practical Work :- Practice session	25-30
JANUARY	REVISION	
	Pre Board -II Complete Syllabus	25-30
FEBRUARY	REVISION	

SUBJECT - Maths

MONTH	MONTHWISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	Ch 3 Matrices Ch 4 Determinants Ch. 12 LPP	30
MAY	Ch 1.Relations and Functions Activity 1.:To demonstrate a function which is not one one but is onto .	15
JULY	Ch 2 Inverse trigonometry function Ch. 5.Continuity and Differentiability	32

	Activity 2:To verify that the relation is an equivalence relation. Activity 3:Continuity and discontinuity of a function at a point.	
U T 1 - Ch-3, 4 and 5		
AUGUST	Ch 6 Application of Derivatives Ch 7 Integrals Activity 4:To explore the principal value of the function $\sin^{-1}x$ using a unit circle . Activity 5:To understand the concept of increasing and decreasing function.	20
SEPTEMBER	Ch 8 Application of Integrals Ch 9 Differential equation Activity 6:To understand the concept of absolute maximum and minimum of a function in a close interval through its graph. Activity 7:To verify that the angle in a semi circle is a right angle, using vector method.	24
Half yearly examination (Ch 1,2,3,4,5,6,7,12)		
OCTOBER	Ch 10 Vector algebra Ch 11 Three Dimensional geometry Ch 13 Probability Activity 8:To explain the computation of conditional probability. Lab manual file submission last date 3 /11/2025	24
U T - 2 Ch 7, 8 and 9		
NOVEMBER	Revision (Ch -10 to 13)	
PRE BOARD 1 : FULL SYLLABUS		

DECEMBER	Recapitulation : Ch 2 Inverse trigonometry function Ch 7 Integrals	
JANUARY	Recapitulation : Ch 8 Application of Integrals Ch 9 Differential equation PRE BOARD 2: FULL SYLLABUS	
FEBRUARY	Recapitulation: Ch 3 Matrices Ch 1 Relation and functions	
FEBRUARY	CBSE Board Examination	

SUBJECT - CHEMISTRY		
MONTH	MONTHWISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	Chapter 1. Solution Chapter 2. Electrochemistry Practical work :- Preparation of solution	35
MAY	Chapter 6 . Haloalkanes and Haloarenes Practical work :- Volumetric Analysis	20
JULY	Chapter 7. Alcohols, Phenols and Ethers Chapter 8. Aldehyde, ketones and Carboxylic Acids Practical work :- Salt Analysis	35
UT-1- Chapter 1 and 2		
AUGUST	Chapter 9:- Amines Chapter 10 :- Biomolecules Practical work :- Salt Analysis	30

SEPTEMBER	Chapter 4- d and f block Chapter 5- Coordination Compounds Practical work :- Functional Group test	35
Term 1 Exam (Chapter 1,2,6,7,8,9)		
OCTOBER	Chapter 3 :- Kinetics Practical work :- Content Based , Preparation of Organic And Inorganic Compound	25
UT -2 = Ch6, Ch7, Ch 8		
NOVEMBER	Revision Chapter 1,2,3 4,5 Practical Work :- Practice session	35
Pre Board -I Complete Syllabus		
DECEMBER	Revision Chapter 6,7, 8,9 10	35
Pre Board-II	Complete Syllabus	
JANUARY	Revision	35
FEBRUARY	REVISION , CBSE BOARD EXAM	

SUBJECT - BIOLOGY		
MONTH	MONTH WISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	CHP 1; SEXUAL REPRODUCTION IN FLOWERING PLANT	30
MAY	CHP 2; HUMAN REPRODUCTION CHP 3; REPRODUCTIVE HEALTH Practical - Prepare a temporary mount to observe pollen germination.	25
JULY	CHP 4; PRINCIPLES OF INHERITANCE CHP5 ; MOLECULAR BASIS OF INHERITANCE Practical - Study the plant population density by quadrat method.	30-35
UT 1 - Ch 1-Sexual reproduction in flowering plants,Ch 2- Human reproduction		

AUGUST	CHP 6; EVOLUTION CHP7; HUMAN HEALTH CHP 8; MICROBES IN HUMAN WELFARE Practical -Study the plant population frequency by quadrat method.	35
SEPTEMBER	CHP 9; BIOTECHNOLOGY; PRINCIPLE AND PROCESSES CHP 10; BIOTECHNOLOGY AND ITS PRINCIPLES Practical- *Prepare a temporary mount of onion root tip to study mitosis. *Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.	35-40
Half Yearly Exam -Ch 1,2,3,4,5,6,7,8,9		
OCTOBER	CHP 11; ORGANISMS AND POPULATIONS CHP 12; ECOSYSTEM CHP 13; BIODIVERSITY AND CONSERVATION Practical -Study and observation the following (Spotting): 1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). 4. Meiosis in onion bud cell or grasshopper testis through permanent slide.	30-35
UT-2	Chapter 10-Biotechnology and its principles, Chapter 11. Organisms and populations .	
NOVEMBER	REVISION	
Pre Board I- Complete syllabus		
DECEMBER	REVISION	
Pre Board II - Complete syllabus		
JANUARY	REVISION	
FEBRUARY	REVISION C.B.S.E Exam	

MONTH	SUBJECT : COMPUTER SCIENCE MONTHWISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	April: Chapter 1 – Python Revision Tour -1 Chapter 2- Python Revision Tour- 2 Practicals – Inserting and Displaying Elements of Lists, Dictionaries, Tuples, Stings Implementing String & Tuple Functions Implementing List Functions – append(), extend(), sort() etc Implementing Dictionary functions- items() keys(), values() etc Python codes to delete elements in Lists , tuples, dictionaries using pop() & del statement.	25
MAY	May: Chapter 3- Working with Functions Chapter 6:Exception Handling Practicals:	20

	<p>Creating and Python codes using Functions. Using Arguments & return statements Passing mutable and immutable values to functions. Except Block Finally</p>	
JULY	<p>Chapter 5- File Handling – Text Files,Binary Files & CSV Files Chapter Chapter 7 – Data Structures - Stack</p> <p>Practicals: Opening & Closing text files in read , write , append modes. Transferring content on one text file to another Counting specific type characters in a text file Random accessing in a text file using seek() & tell()</p> <p>Opening & closing binary & CSV files in read & write modes. Searching content in binary & CSV file. Implementation of Stack using a List Implementing push, pop, traversing operations in stack.</p>	34
UT-1 : Ch -3 ,Lists, Tuples		
AUGUST	<p>Chapter – 10 Relational Databases Chapter- 11 Simple Queries Chapter 12 Table Creation and data manipulation commands</p> <p>Practicals: MySQL queries- create database, create table , show databases, show tables Inserting records in a relation Modifying table schema Modifying records Deleting records & columns in a relation.</p>	33
SEPTEMBER	<p>Chapter 13 Join in SQL Chapter 14 Interface Python with Mysql</p> <p>September : Recapitulation – Ch-1,2,3,5,6,7,10,11,12 Practical File Submission</p> <p>Half Yearly Exam- September- (Ch-1,2,3,5,6,7,10,11,12)</p>	20
HALF YEARLY EXAMINATION : Ch-1,2,3,5,6,7,10,11,12		
OCTOBER	Chapter – 8 & 9 Communication & Network Concepts	20
UT-2 : CH-8, 13,14		
NOVEMBER	Recapitulation – Ch-1,2,3,5,6,7,8,9,10,11,12,13,14	
PRE-BOARD 1 : Ch-1,2,3,5,6,7,8,9,10,11,12,13,14		
DECEMBER	Recapitulation Ch-1,2,3,5,6,7,8,9,10,11,12,13,14	
PRE-BOARD 2 : Ch-1,2,3,5,6,7,8,9,10,11,12,13,14		
JANUARY	Recapitulation – Ch-1,2,3,5,6,7,8,9,10,11,12,13,14	

FEBRUARY	REVISION	

MONTH	SUBJECT : PHYSICAL EDUCATION MONTHWISE SYLLABUS	NO. OF EXPECTED PERIODS
APRIL	Unit-1 Management of Sporting Events.	23
MAY	Unit-2 Children And Women In Sports.	20
JULY	Unit-3 Yoga As Preventive Measure For Lifestyle Disease. Unit-4 Physical Education And Sports For CWSN (Children With Special Needs- Divyang) Activity:- Prepare a poster on strategies to make physical activities accessible for children with special needs for the notice board of school.	36
PT-1/ UT-1 :UNIT 1 And 2		
AUGUST	Unit-5 Sports And Nutrition. Activity:- Take five ready to eat food items like packets of chips, etc. check their nutritive values displayed on the packets and analyze which of them are good and bad for your health. Activity:- Draw a food pyramid. Unit- 6 Test And Measurement In Sports. Activity:- Draw a flow chart of Rikli and jones- senior citizen fitness test. Practical:- SAI khelo India physical fitness test.	32
SEPTEMBER	Unit-7 Physiology And Injuries In Sports. Activity:- Create a flowchart on classification of sports injuries. Practical:- Brockport physical fitness test (BPFT) Project file submission Unit-8 Biomechanics And Sports.	20
HALF YEARLY EXAMINATION : UNIT 1,2,3,4,5,6		

OCTOBER	Unit:9 Psychology And Sports. Activity-1: Draw a free hand drawing of a type of aggression in sports. Activity-2: Which of your personality trait would you never want to change and which one would you like to change and why? discuss with your friends. Practical:- Proficiency in games and sports (skill of any IOA recognised sports game of choice . Unit-10 Training In Sports.	20
PT-2/UT-2 : UNIT-7,8		
NOVEMBER	REVISION Pre Board Examination – I - Full Syllabus	20
DECEMBER	Pre Board Examination – II Full Syllabus	
JANUARY	Recapitulation PRACTICAL EXAMINATION	
FEBRUARY	BOARD EXAMINATION	
MARCH		