

CLASS-12
Subject: English

NCERT –FLAMINGO (NCERT)
VISTAS (NCERT)

BBC Literature Companion & BBC Compaeta

Month	Flamingo Prose	Flamingo Poetry	Vistas	Writing/ Reading BBC Compacta
April	1. The Last Lesson 2. Lost Spring	1. My Mother at Sixty Six 2. An Elementary School Classroom in a Slum	1. The Third Level 2. The Tiger King 3. Journey to the End of the Earth	Notice Writing, Advertisements, Comprehension ,Note-Making, Article Writing, Invitations and their Replies, Letter Writing
May	3. Deep Water Pre Mid-Term Exams	3. Keeping Quiet	4. The Enemy 5. Should Wizard Hit Mommy?	Speech Writing, Business Letter, Note Making
June	Summer Break			
July	4. The Rattrap 5 Indigo	4. A Thing of Beauty	6. On the face of it.	Poster Making, Report Writing, Complaint Letters
August	6 Poets and Pancakes	5. A Roadside Stand	7. Evans Tries an O-Level	Speech Writing
September	7 The Interview Mid - Term Exams			Article Writing, Business Letters
October	8 Going Places	6. Aunt Jennifer's Tiger	8. Memories of Childhood	Comprehension Passage, Note Making, Debate Writing
November	Revision Post Mid- Term Exams			
December	Revision			
January	Revision	Pre Board Exams		
February	Revision			
March		ANNUAL EXAMS		

SUBJECT: PHYSICS

**BOOK PRESCRIBED: NCERT TESTBOOK
LAB MANUAL: COMPREHENSIVE PRACTICAL PHYSICS.**

**Marking scheme
Theory 70 Practical 30**

Months	Chapters	Practicals	Activities
April	Unit I : Electrostatic Unit II : Current electricity	1. To determine resistivity of given wire by plotting a graph of potential difference versus current 2. To find resistance of a given wire using metre Bridge 3. To compare the EMF of two primary cell using potentiometer OR To determine the internal resistance of a given primary cell using potentiometer.	1. To measure the resistance and impedance with or without iron core. 2. To measure resistance, voltage, current and check continuity of a given circuit using multimeter. 3. To assemble a household circuit comparing three bulb, there switch, a fuse and a power source.
May	Unit III : Magnetic effect of current and Magnetism Pre- mid term exam		
June	Summer vacation		
July	Unit IV : Electromagnetic induction and alternating current Unit V : Electromagnetic waves Unit VI: Optics	4. To determine resistance of a Galvanometer by half deflection method and to find its figure of merit. 5. to convert the given galvanometer into a voltmeter of desired range and to verify the same. OR To convert the given galvanometer into an ammeter of desired range and to verify the same. 6. To find the frequency of AC mains with a sonometer.	4. To assemble the component of a given electric circuit. 5. To study the variation in potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, rheostat, key , ammeter and voltmeter.
August	Unit VII: Dual nature of matter and radiation Unit VIII: Atoms and nuclie	7. To find the focal length of a convex lens Define the focal length of a convex lens by plotting a graph between u and v or between 1/u and 1/v. 8. To find the focal length of a convex mirror, using a convex lens. OR To find the focal length of a concave lens, using a convex lens. 9. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.	7. To identify a diode, an LED , a resister and a capacitor from a mixed collection of such items. 8. Use of multimeter to see the unidirectional flow of current in case of diode and an LED and check whether a given electric component is in working order. 9. To study effect of intensity of light on an LDR.
September	Mid term exam		
October	Unit :IX Electronics devices	10. To determine Refractive Index of a glass slab using a travelling microscope. 11. To find Refractive Index of a liquid by using convex lens and a plane mirror.	10. To observe refraction and Lateral deviation of a beam of light incident oblique on a glass slab. 11. To observe polarisation of light using two polaroids 12. To observe diffraction of light due to a thin slit.
November	Post mid term exam	12. To draw the I-V characteristic curve for a PN junction diode in forward bias and reverse bias.	1. To study the nature and size of the image formed by a convex lens and concave mirror on a screen by using a candle and a screen. 2. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
December	Revision		
January	Pre board		
February	Board practical exam		

SUBJECT – CHEMISTRY(043)

Book Prescribe: - N.C.E.R.T

Marks Distribution: Total Marks: 100

Lab Manual: - Comprehensive

Theory: 70 Practical + Project: 30

Month	Chapters	Practical	Projects
April	Unit 1 Solid State Unit 2 Solution Unit 3 Electrochemistry		<p>Students are also expected to carry out one investigatory project that would engage them for about 10 days in actual experimentation. They would be expect to submit a project report on the same that would include a presentation of the results obtained in their investigation.</p> <p>Investigatory Projects are:</p> <ul style="list-style-type: none"> * Study of the presence of oxalate ions in guava fruits at different stages of ripening. * Extraction of essential oils present in Saunf, Ajwain & Ellaichi. * Study on quantity of casein present in different samples of milk. * Study of diffusion of a solid into a liquid. * Determination of rate of flow of solution and liquids horizontally. * Investigation of the foaming capacity of different washing soaps and the effect of addition of sodium carbonate on it. * Study of acidity of different samples of the tea leaves and reasons for variation in their tests. * Study of presence of insecticide/ pesticide (nitrogen containing) in vegetables and fruits. * Preparation of soyabean milk and its comparision with natural milk w.r.t curd formation, effect of temp. etc. * Determination of rate of evaporation of different liquids. * Study of effect of acids and bases on the tensile strength of fibres. * Study of digestion of starch by salivary amylase and effect of pH and temperature on it. * Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper. *Comparative study of rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice etc. * Study of the setting of mixtures of cement with lime, sand of different qualities, rice husk etc (w.r.t. time, volume and strength.) <p>Note: - Any other investigatory project, which involve about 10 periods of work can be chosen with approval of the teacher.</p>
May	Unit 4 Chemical Kinetics Unit 5 Surface Chemistry Unit 6 General Principles and process of isolation of elements		
June	Summer Break		
July	Unit 7 p- block Unit 8 d and f – block element Unit 9 Coordination Compound	* Preparation of Inorganic Compounds.	
August	Unit 10 Haloalkanes and Haloarenes Unit 11 Alcohols, Phenols and ether Unit 12 Aldehyde, Ketones, Carboxylic acid Unit 13 Organic Compound containing Nitrogen Unit 14 Biomolecules	* Preparation of Organic Compound.	
September	Term-1 Exam	* To detect the functional groups in organic compound.	
October	Unit 15 Polymer Unit 16 Chemistry in everyday life.	* Volumetric analysis (Preparation of standard solutions and determining the strength of unknown solution by using this solution)	
November	Term-2 Exam	* Qualitative Analysis (Analysis of given salt for the acidic and basic radical)	
December	Revision		
January	Preboard		
February	Practical		
March	Final Exams		

Subject: Biology**Marking Scheme:****Theory: 70****Practical: 30****Books Published: NCERT
Lab Manual: Comprehensive**

MONTH	CHAPTER	EXPERIMENT
APRIL	Ch 1 Reproduction in organisms Ch 2 Sexual reproduction in flowering plants Ch 3 Human reproduction Ch 4 Reproductive Health	1. Pollen germination on a slide.
APRIL	Ch 5 Principles of Inheritance and Variation Ch 6 Molecular basis of inheritance	2. To Study Texture, Moisture content, pH and Water holding capacity of soil.
May	Pre Mid Term exam	
June	Summer Vacation	
July	Ch 7 Evolution Ch 8 Human Health and Disease Ch 9 Strategies for enhancement in food production Ch 10 Microbes in Human Welfare	3. To study pH, clarity and presence of living organisms in pond water sample
August	Ch 11 Biotechnology- Principles and Processes Ch 12 Biotechnology and its applications Ch 13 Organisms and populations	4. Temporary mounts of onion root tip. 5. Isolation of DNA from plant material. 6. To study adaption in animals.
September	Mid term Exam	
October	Ch 14 Ecosystems Ch 15 Biodiversity and Conservation Ch 16 Environmental tissue	7. Spotting T. S of Blastula, Ovary, testis and Pollen germination through permanent sliders.
November	Revision Post mid term exam	8. To Study plant production density and frequency. 9. Pedigree analysis. 10. To Study effects of temperature on salivary amylase.
December	Revision	
January	Pre board	
February	Board Practical Exam	Note: one investigatory project on any topic of syllabus.
March	Final Exam	

Subject: Mathematics

Sr.No.	Month	Name of chapters	Activities
1	April	<ul style="list-style-type: none"> • Matrices • Determinants • Relation and Function 	<ul style="list-style-type: none"> • Activity 1
2	May	<ul style="list-style-type: none"> • Inverse trigonometric function • Continuity and differentiability • Revision and Pre-Mid - Term exam 	<ul style="list-style-type: none"> • Activity 2
3	June	<ul style="list-style-type: none"> ○ Summer vacation 	
4	July	<ul style="list-style-type: none"> • Application of derivative • Integrals 	<ul style="list-style-type: none"> • Activity 3 • Activity 6
5	August	<ul style="list-style-type: none"> • Application of integration • Differential equations • Linear programming 	<ul style="list-style-type: none"> • Activity 7
6	September	<ul style="list-style-type: none"> ○ Mid- Term exam 	<ul style="list-style-type: none"> • Activity 8
7	October	<ul style="list-style-type: none"> • Vectors • Three dimensional geometry • probability 	<ul style="list-style-type: none"> • Activity 10 • Activity 13
8	November	<ul style="list-style-type: none"> • Revision and Post Mid – Term Exams 	<ul style="list-style-type: none"> • Activity 14 • Activity 16
9	December	<ul style="list-style-type: none"> • Revision and Pre- Board Exam 	
10	January	<ul style="list-style-type: none"> ○ Revision 	
11	February	<ul style="list-style-type: none"> ○ Revision and final exam 	

Publisher -Arya publication
Writer -D. K Goel

SUBJECT : Accountancy

Theory 80
Practical 20

Month	Unit	No. Of units
April	Fundamental of partnership Change in profit sharing ratio	Make a Project on partnership 1
May	Admission Retirement and death of partners	Pre-Mid term Exams 3
June	Summer break	
July	Analysis of financial statements , Cash flow statement Ratio analysis, Comparative statement	4
August	Accounts for not for profit organization NPO	1
September	Company Accounts... Issue of share	Mid term exam
October	Issue of debentures Redemption of debentures	2
November	Revision	
December	Pre - Board exam	
January	Revision	
February	Revision	
March	Final exams	

Publisher -V. k publication.
Writer -R. K singhla

SUBJECT : Business studies

Theory 80
Practical 20

Month	Unit	No. Of units
April	Introduction of management Principle of management	Make a Project on partnership
May	Business environment	2, Pre-Mid Term Exams
June	Summer break	
July	Planning, Organising, Staffing	3
August	Controlling	1
September	Financial markets	Mid Term Exams
October	Marketing management and consumer protection	2
November	Post Mid Term Exams	
December	Revision	
January	Pre – Board Exams	
February	Revision	
March	Final exams	

Subject : Economics**Class - XII****Books: 1. Macro Economics.****Author : T.R. Jain****2. Indian Economic Development**

Month	Macro Economics	Indian Economic Development	Project
April	1. Introduction 2. Some Basic concepts of Macroeconomics 3. National Income and Related Aggregates 4. Methods of calculating National Income	1. Indian Economy on the eve of Independence	Project on Double counting
May	5. Money 6. Banking	2. Five Years plans in India 3. Agriculture, Industry and Trade (1950-1990)	Project on Five Year Plans and Niti Aayog Pre Mid Term Exams
June	Summer Break		
July	7. Aggregate Demand, Aggregate Supply and Related concepts 8. Short Run Equilibrium Output 9. Problems of Deficient and Excess Demand	4. New Economic policy	Project on AD and AS
August	10. Govt. Budget 11. Foreign Exchange Rate	5. Poverty 6. Human Capital formation in India 7. Rural Development	Project on Economic Reforms
September	Revision and Mid Term Exams		
October	12. Balance of Payment	8. Employment 9. Infrastructure 10. Environment and sustainable Development 11. Development Experience of India, Pakistan and China	Project on infrastructure
November	Revision and Post Mid Term Exams		
December	Revision		
January	Revision		
February	Revision		
March	Final Exams		

SUBJECT: HISTORY
Class - XII

BOOK PRESCRIBED: N.C.E.R.T.

THEORY: 80, PRACTICAL: 20

Month	Chapter	No. Of Chapters
April	<ul style="list-style-type: none"> •The Story of the First Cities : Harappan Archaeology ,• Political and Economic History : How Inscriptions tell a story And ,• Social Histories : using the Mahabharata 	3
May	<ul style="list-style-type: none"> •A History of Buddhism : Sanchi Stupa • Medieval Society through Travellers Accounts and Pre – Mid term Exam 	Pre- Mid- term Exam, 2
June	Summer break	
July	<ul style="list-style-type: none"> •Religious Histories : The Bhakti-Sufi Traditions, • New Architecture : Hampi and •Agrarian Relations: The Ain-i-Akbari 	3
August	<ul style="list-style-type: none"> • The Mughal Court : Reconstructing Histories through Chronicles •Colonialism and Rural Society : Evidence from Official Reports and • Representation of 1857 	3
September	Revision and Mid-term Exams	Mid- term Exams ,1
October	<ul style="list-style-type: none"> •Colonialism and Indian Towns : Town Plans and Municipal Reports •Mahatma Gandhi through Contemporary Eyes •Partition through Oral Sources and • The making of the Constitution 	4
November	Revision and post Mid Term Exam	
December	Revision and Pre - board Exams	Pre- board exams
January	Revision and board Practical	
February	Revision	
March	Final Exams	

SUBJECT: POLITICAL SCIENCE

Class - XII

BOOK PRESCRIBED: N.C.E.R.T.

THEORY: 80, PRACTICAL:20

Sr. No.	Month	Name of Chapters	No. of Chapters
1.	April	Cold War Era and Non-aligned Movement, The End of Bipolarity and New Centers of Power	3
2.	May	South Asia and Contemporary World, United Nations and its Organizations and Pre Mid Term Exam	2
3.	June	Summer Break	
4.	July	Challenges of Nation- Building, Planning and Development and India's Foreign Policy	3
5.	August	Parties and Party System in India, Democratic Resurgence, Security in Contemporary World and Social and New Social Movements in India	4 and Make a project
6.	September	Revision and Mid term Exam	Mid – Term Exam
7.	October	Environment and Natural Resources, Globalisation, Regional Aspirations and Recent Developments in Indian Politics : Trends and Development	4
8.	November	Second Term Exam	2
9.	December	Revision and Pre- Board Exam (1)	
10.	January	Revision	
11.	February	Revision	Final Practical
12.	March	Revision	

SUBJECT- INFORMATICS PRACTICES (065)**BOOK PRESCRIBED:- INFORMATICS PRACTICES****PUBLICATION - DHANPAT RAI & CO.****WRITER: - SUMITA ARORA**

MONTH	CHAPTER'S NAME	ACTIVITIES
April	Ch- 1 Python Pandas -I Ch- 2 Python Pandas-II	Create a Data Frame (Using List of Dictionaries, List, 2-D ndArray, Series Object and Data frame Object and do different operations as : Accessing data- Rows/Columns, Add and Modify - Rows & Columns, Deleting – Rows & Columns Find Mean, Mode and median using data frame.
May	Ch- 5 MySQL SQL Revision Tour Ch- 7 Querying using My SQL Pre-Mid Term Exam	Create a table in MySQL and enter the records of at least 20 students and apply different constraints used in MySQL Create a table employee, Group the record, apply aggregate functions on the table.
June	Summer Vacation	
July	Ch- 6 MySql Functions Ch-8 Joins and Set Operations	Do practice of String functions, Numeric Functions, Date & Time Functions and find the output. Join two or three tables using Equi join, Non Equi join, Natural join, cross join, Left/Right join.
August	Ch -3 Plotting with Pyplot Ch- 4 Importing Exporting Data b/w CSV File MySql and Pandas	Create Line chart , Scatter chart and Bar chart with pyplot. Create Histograms , Frequency Polygons, Box Plot with Pyplot. Develop a project report on (i) Transferring Data between Data Frames and MySQL (ii) Exporting a Data Frames data as a Table in MYSQL.
September	Revision	Mid term Exam
October	Ch- 9 Introduction to Computer Network Ch- 10 Introduction to Internet and Web.	Create a report on : Types of network & network topologies Prepare a presentation on Network devices Prepare a presentation on Components of Website.
November	Ch- 11 Societal Impact Ch- 12 Data Protection	Develop a project report on : Cyber Crime Develop a presentation on : Threats to Data : i.e. Virus, Spyware, Adware, Spamming, PC intrusion, Phishing and Pharming, Cookies
December	Revision and Mid Term Exam	Revision
January	Revision & Project work	Develop a Project on Given Topic using Database connectivity Use My SQL as a back-end and Python as a Front -end.
February	Revision & Pre-Board Exam	Revision & Project work
March	Annual Exam	

Subject : Physical Education (048)

Book Prescribed: SP Text Book on Physical Edu.

Lab Manual - SP

Writer : Dr. Manu Sood

Month	Unit's Name	Activity Name
April	Unit- 1 Planning in Sports Unit- 2 Sports & Nutrition	Athletics : Track Events
May	Unit- 3 Yoga & Lifestyle	Athletics : Field Events
June	Summer Vacation	
July	Unit- 4 Physical Education & Sports for CWSN Unit-5 Children and Women in Sports	Athletics : Combined & Others Events
August	Unit- 6 Test & Measurement in Sports Unit- 7 Physiology & Injuries in Sports	Volleyball / Basketball Kabaddi / Kho- Kho
September	Revision and Mid Term Exam	
October	Unit- 8 Biomechanics & Sports Unit- 9 Psychology & Sports	BMI
November	Unit- 10 Training in Sports	Yoga
December	Revision and Post Mid Term Exam	
January	Revision	
February	Revision	
March	Annual Exam	