



**DAV CENTENARY PUBLIC
SCHOOL, CHANDER NAGAR,
GHAZIABAD**

**ANNUAL CURRICULUM PEDAGOGICAL
PLAN**

SESSION:2026-27

CLASS-XI

Business Studies

Part A					
Unit/ Topic	Learning Outcomes	Teaching/ Learning Strategies	Resources	Assessment Tools	Interdisciplinary Connections
Business, Trade and Commerce Number of periods: 18 April	Student will be able to: * Define business, trade, and commerce. * Explain the characteristics of business. * Describe the evolution of trade and commerce. * Understand the role of business in society.	* Historical timelines of trade evolution. * Case study analysis of different business types. * Group discussions on business objectives	*NCERT	* Class discussions. * Short quizzes. * Case study analysis. * Written assignments.	* History: Evolution of trade routes and commercial practices. * Geography: Impact of geographical factors on trade. * Economics: Role of business in economic development. * Sociology: Business as a social institution.
2.Forms of Business Organisations *Formation of a Company Number of periods:24 April - May	Student will be able to: * Identify and differentiate various forms of business organizations (sole proprietorship, partnership, company, etc.). * Analyze the merits and demerits of each form. *Understand the factors affecting the choice of a business organization. *Understand the process of company formation. * Explain the documents required for company formation. * Analyze the role of promoters and directors.	*Comparative analysis of the following: * Sole Proprietorship * Partnership * Hindu Undivided Family (HUF) * Cooperative Societies * Joint Stock Company * talk with local business owners.	*NCERT.	*Comparative analysis charts. * Project work (researching business organizations). * Written tests. * Analysis of legal documents	* Law/Civics: Legal aspects of business formation and operations. *Economics: Understanding the impact of ownership structure on economic activity. Mathematics: Calculation of profit sharing in partnerships.

3. Private, Public and Global Enterprises Number of periods: 18 June	Student will be able to: *Distinguish between private and public sector enterprises. * Explain the concept of global enterprises and multinational corporations. * Analyze the role of public sector enterprises in economic development.	* Case studies of successful private, public, and global enterprises. * Analysis of government policies impacting businesses. * Research projects on multinational corporations (MNCs). * Simulation exercises on joint ventures.	*NCERT	* Debates on privatization. * Case studies of MNCs. * Research reports on public sector undertakings.	* Economics: Public finance and economic policies. * Geography: Impact of globalization on different regions. * Political Science: Government policies and regulations.
4. Business Services Number of periods: 18 July	Student will be able to: * Understand the importance of various business services (banking, insurance, transportation, warehousing, communication). * Describe the functions of these services. * Analyze the role of these services in facilitating business activities.	* Field visits to banks, insurance companies, and transportation hubs. * Practical exercises on filling bank forms and insurance proposals. * Presentations on the role of different business services. * Debates on the impact of technology on services.	*NCERT	* Practical exercises (filling bank forms, insurance claims). * Field visits (to banks, post offices, etc.). * Project on e-commerce services. * Written examinations.	* Economics: Role of financial institutions. * Information Technology: Impact of technology on business services. * Geography: Transportation and logistics.
5. Emerging Modes of Business Number of periods: 10 August	Student will be able to: * Explain the concept of e-business and its advantages. * Understand the processes of online transactions. * Analyze the impact of outsourcing on business.	* Online demonstrations of e-commerce platforms	*NCERT	* Case studies on successful e-businesses.	* Information Technology: Understanding internet technologies. * Mathematics: Data analysis of online sales. * Economics: Impact of technology on employment.
6. Social Responsibility of Business and Business Ethics Number of	Student will be able to: * Understand the concept of social responsibility. * Explain the responsibilities of	* Debates on the importance of social responsibility * Community service projects.	*NCERT	* Debates on ethical dilemmas. * Case studies on CSR initiatives.	* Sociology: Corporate social responsibility and societal impact. * Political Science: Business and

periods:12 October	business towards different stakeholders. * Analyze the importance of business ethics.	* Analysis of ethical dilemmas in business * Case studies of companies with strong ethical practices like TATA.		* Research on environmental impact. * Written assignments.	government regulations. * Environmental Studies: Environmental impact of business.
Part B: Finance and Trade					
7. Sources of Business Finance Number of periods:30 October	Student will be able to: * Identify and differentiate various sources of business finance (equity, debt, etc.). * Analyze the merits and demerits of each source. * Understand the factors affecting the choice of a source of finance.	*Comparative analysis of different financial sources. * Case studies of companies using various financing methods. * Presentations on the stock market	*NCERT	* Financial analysis of company data. * Case studies on financing decisions. * Project on stock market investments. * Written tests.	* Economics: Financial markets and instruments. * Mathematics: Financial calculations and analysis. * Accounting: Understanding financial statements.
8. Small Business Number of periods: 16 November	Student will be able to: * Understand the role of small businesses in the economy. * Explain the government support for small businesses. * Analyze the challenges faced by small businesses.	*Field visits to local small businesses. * Interviews with entrepreneurs * Analysis of government schemes for small businesses	*NCERT .	* Field visits to small businesses * Case studies on successful small businesses.	* Economics: Role of small businesses in employment generation. * Political Science: Government policies for small businesses. * Sociology: Entrepreneurship and social mobility.
9.Internal Trade Number of periods:30 November - December	Student will be able to: *Distinguish between wholesale and retail trade. * Explain the functions of wholesalers and retailers. * Analyze the role of different types of retail outlets.	* Visits to local retail and wholesale markets	* NCERT	* Market surveys. * Analysis of retail store layouts. * Written examinations.	* Geography: Distribution networks. * Mathematics: Calculation of discounts and markups. * Marketing: Understanding consumer behavior.

10. International Business Number of periods: 14 December and January	Student will be able to: * Understand the importance of international business. * Explain the processes of import and export. * Analyze the challenges of international business.	* Discussion on the Scope of International Business	* NCERT	* Case studies on international trade. * Analysis of trade data.	* Geography: International trade routes and patterns. * Economics: Foreign exchange and balance of payments. * Political Science: International trade agreements.
--	--	---	---------	---	---

Economics

Month / Unit	Topic	Learning Objectives	Learning Outcomes	Resources	Assessment Tools
April - May	Part A: Intro & Collection of Data Part B: Intro to Micro & PPC	Understand the role of stats in Economics; learn sampling vs. census. Define Microeconomics; understand scarcity and Opportunity Cost.	Students can design a survey and identify bias in data collection. Students can plot a PPC and explain why it is concave to the origin	NCERT, Google Forms, Census 2021 reports. Case studies on the "Economic Problem" in various nations.	Questionnaire design project; MCQ on data types. Diagram drill: Shifts vs. Movements on PPC
May - July	Part B: Consumer Equilibrium & Demand	Analyze Utility (Law of DMU) and Indifference Curves; Law of Demand	Students will calculate Price Elasticity of Demand using various methods.	Market schedules for luxury vs. essential goods.	Numerical worksheets on Ed; Indifference Map analysis
August	Part A: Organization & Presentation Part B: Producer Behavior (Production & Cost)	Learn to classify data and use visual tools (Graphs/Diagrams). Explain the Law of Variable proportions Explain the concept of Cost and its types	Students will master Histograms, Ogives, and Pie Charts for data storytelling	Newspaper infographics, Graph paper. Students can identify the "Ideal Output" level and explain diminishing returns.	Practice of numerical Problem-solving on TC, TVC, TFC tables
September	Part B: Revenue, Supply & Equilibrium	Study Revenue curves and Price Determination under Perfect Competition	Students can calculate Equilibrium Price and identify Excess Demand/Supply.	Simulation of a local vegetable market (Mandi).	Mid-Term Exam; Practical file assessment.

October	Part A: Measures of Central Tendency	Calculate Mean, Median, and Mode in different series.	Students can interpret the "Average" and find missing frequencies.	Real-world salary data; Sports statistics (cricket averages).	Speed-maths test on Mean/Median/Mode.
November	Part A: Correlation & Index Numbers	Measure relationship between variables and track price changes	Students can compute Karl Pearson's 'r' and construct a Consumer price index	Stock market data (NIFTY/SENSEX);	Project on "Impact of Inflation on a Student's Budget."
December	Forms of market and price determination under perfect competition with simple applications	Determination of market equilibrium and effects of shift in demand and supply	Student will be able to use Simple applications of demand and supply : price	Sandeep Garg book	Determination of market equilibrium practice
January	Problems of students				
February	Revision & Project Work	Consolidate Micro and Stats concepts for final evaluation.	Students can apply economic theory to defend a project thesis.	Sample papers, Previous year questions.	Viva-voce; Full-length Mock Examination.

Accountancy

Topic No. of periods When	Learning Outcome	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Inter-Disciplinary
Topic: Fundamentals of Accounting No. Of Periods : 25-28 When April/May	The students will be able to: Define accounting, bookkeeping, and accountancy. State the objectives of accounting Explain basic accounting terms (assets, liabilities, capital, revenue, expenses) Explain the accounting process Describe the qualitative characteristics of accounting information (reliability, relevance,	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lecture and discussion on the definition and objectives of accounting Role-playing activity where students act as different stakeholders (owners, managers, etc.) and explain their need for accounting information Group discussions on the meaning and examples of each term Flowchart depicting the steps in the accounting	Text book Worksheets Class Board and Chalk and Duster Other reference books	

	understandability, comparability) Explain the various branches of accounting (financial, management, cost) Prepare basic accounting equations. Solve simple problems related to accounting equations. Analyze the impact of business transactions on the accounting equation Differentiate between various accounting principles (e.g., going concern, accrual, consistency) Assess the importance of accounting information for decision-making. Evaluate the limitations of accounting Justify the need for accounting standards		process Simulation activity where students perform the accounting process for a simple transaction Mind map illustrating the different branches and their functions Use of T-accounts to demonstrate the effect of transactions Group activity where students analyze scenarios and identify the applicable accounting principle		
Topic: Journal No. Of Periods : 10-12 When May	The students will be able to: Define journalizing. State the purpose of a journal Recall and explain the rules of debit and credit for different accounts (assets, liabilities, capital, revenue, expenses). Journalize simple business transactions.	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lecture and discussion on the definition and purpose of journalizing. Explanation of the rules with real-life examples Step-by-step explanation of how to journalize transactions. Practice exercises where students journalize	Text book Worksheets Class Board and Chalk and Duster Other reference books	

	Apply the rules of debit and credit Explain the concept of compound entries. Journalize compound entries Differentiate between various types of journal entries (e.g., opening entries, adjusting entries, closing entries) Create journal entries for complex business transactions. Develop a journal for a hypothetical business		simple transactions individually Explanation of the difference between simple and compound entries Group activity where students create compound entries for given scenarios Error detection exercises where students identify and correct mistakes in journal entries		
Topic: Cash Book and Subsidiary Books No. Of Periods : 12-15 When July	The students will be able to: Define cash book and its purpose Identify types of cash books Define subsidiary books and their purpose Identify types of subsidiary books Understand the relationship between cash book, subsidiary books, and ledger Understand posting to ledger Create complete accounting records by creating transactions of a fictitious business and recording its transactions in the books and posting them in Ledger	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lectures, presentations, glossary creation illustrating the posting process, explaining the flow of information Comparing and contrasting the different cash book types, analyzing scenarios to determine the appropriate type Case studies, analyzing business transactions and determining the correct subsidiary book for recording Solving numerical problems, working through examples,	Text book Worksheets Class Board and Chalk and Duster Other reference books	Functions of Bank (Business Studies and Economics)

			practicing with worksheets		
Topic: Bank Reconciliation Statement No. Of Periods : 8-10 When July	The students will be able to: Define BRS and its purpose Explain the need for reconciliation Identify causes of discrepancies Prepare a BRS	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Class discussions, brainstorming reasons for discrepancies, real-world examples of reconciliation importance Categorizing activities, analyzing examples of common discrepancies (e.g., outstanding cheques, bank charges) Case studies, analyzing scenarios with discrepancies, identifying the cause of each difference Solving numerical problems, working through examples on the board, practicing with worksheets	Text book Worksheets Class Board and Chalk and Duster Other reference books	
Topic: Rectification of Errors No. Of Periods : 10-12 When August	The students will be able to: Define errors in accounting Classify errors (Error of Commission, Error of Principle) Analyze error effect on trial balance Pass rectification journal entries Correct errors in ledger accounts Prepare a corrected trial balance and Suspense A/c	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lectures, presentations Categorizing activities, explaining the characteristics of each type of error. Discussing the effects of errors on financial statements Comparing and contrasting different types of errors, analyzing scenarios to identify the error type	Text book Worksheets Class Board and Chalk and Duster Other reference books	

			Explaining the journal entries required to correct different types of errors Solving numerical problems, working through examples, practicing with worksheets		
Topic: Depreciation No. Of Periods : 15-18 When August	The students will be able to: Define depreciation and its need Understand depreciation methods Define reserves and provisions Understand types of reserves and provisions Explain accounting treatment of depreciation Prepare depreciation journal entries and prepare Ledger accounts	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lectures, presentations, glossary creation Explaining the formulas and procedures for each method Explaining the journal entries and ledger postings related to depreciation Solving numerical problems, working through examples, practicing with worksheets	Text book Worksheets Class Board and Chalk and Duster Other reference books	
Topic: Financial statements No. Of Periods : 25-30 When October	The students will be able to: Define financial statements and their purpose Analyze the components of financial statements Calculate gross profit, net profit, Operating profit, owner's equity Differentiate direct and indirect expenses Understand accrual accounting Prepare a Trading	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lectures, presentations, textbook reading, glossary creation Explaining the items included in each statement Explaining the formulas and concepts Solving numerical problems, working through examples, practicing with	Text book Worksheets Class Board and Chalk and Duster Other reference books	

	Account, Profit & Loss Account and Balance Sheet (With Adjustments or Without Adjustments) Create complete financial statements		worksheets Working through examples of adjustments, practicing with different scenarios Challenging problems requiring students to prepare a complete set of financial statements from a trial balance		
Topic: Financial statements from Incomplete records No. Of Periods : 10-12 When November	The students will be able to: Define incomplete records (single entry system) Explain the need for accounts from incomplete records Prepare the Statement of Affairs to calculate Capital. Identify steps in preparing a Statement of Affairs Analyze the relationship between opening and closing Statements and preparing the two statements Calculate profit or loss by preparing Statement of Profit/Loss along with various adjustments	Class participation and discussions. Individual and group problem-solving activities. Worksheets and assignments. Periodic tests and quizzes. Comprehensive chapter-end test.	Lectures, presentations Class discussions, explaining the reasons why businesses might keep incomplete records Discussing the disadvantages of incomplete records and the limitations of the information derived from them Solving numerical problems, working through examples, practicing with worksheets	Text book Worksheets Class Board and Chalk and Duster Other reference books	

Marketing

Topic No. of periods When	Learning Outcome	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Inter- Disciplinary
Topic: Fundamentals of Marketing No. Of Periods : 15-18 When: April - May	The students will be able to: Define marketing. Recall traditional and modern concepts. Explain the core concepts (needs, wants, demands, products, value, satisfaction, exchange, relationships). State and identify examples of different marketing functions (e.g., market research, product development, pricing, distribution, promotion). Differentiate between selling and marketing. Analyze the evolution of marketing concepts (production, product, selling, marketing, societal marketing). Evaluate the effectiveness of different marketing strategies. Justify the importance of customer satisfaction. Explain the scope of marketing	Identify different manufacturers and marketers of different products and Differentiating between Needs, Desires and wants etc. by making a comparative chart	Brainstorming activity: "What comes to your mind when you hear the word 'marketing'?" Lecture and discussion on the definition and evolution of marketing. Flowchart depicting the steps in the marketing process. Explanation of each step with real-life examples. Group discussions on the benefits of marketing for different stakeholders (consumers, businesses, society). Group project: Students choose a product and identify the different marketing functions involved in its journey from production to consumption. Discussion on the positive and negative impacts of marketing on society.	Text book Worksheets Class Board and Chalk and Duster Other reference books	Acts as a basis of Business Class XII chapter Marketing Management
Topic: Marketing Environment No. Of Periods : 15-18 When: July	The students will be able to: Define "marketing environment" and its components. Identify and explain micro and macro environment.	Short answer questions, fill in the blanks, matching Identify potential opportunities and threats for a given	Lecture, presentation, mind maps, textbook reading Group discussions, comparative charts, case studies Brainstorming sessions, real-world examples, discussions	Text book Worksheets Class Board and Chalk and Duster Other reference books	Related to Economics (Micro) Factors affecting Demand and Supply

	Analyze environmental impact on business. Differentiate between forces in micro and macro environment. Apply environmental scanning to real-world scenarios. Assess opportunities and threats Evaluate marketing strategies in response to changes	business	Case studies of successful/unsuccessful businesses, newspaper article analysis Project-based learning, developing marketing plans for new products/services		
Topic: Marketing Segmentation, Targeting and Positioning No. Of Periods : 15-18 When: August	The students will be able to: Define segmentation, targeting, positioning Explain benefits of segmentation Identify segmentation bases Describe targeting strategies Explain product positioning Evaluate targeting strategies Differentiate positioning strategies Choose targeting strategy Develop segmentation strategy	Short answer questions, fill in the blanks, matching definitions Develop a detailed segmentation strategy for a given product, justifying the chosen bases	Lectures, presentations, textbook reading, glossary creation Brainstorming, group discussions, real-world examples of successful segmentation Comparing and contrasting different strategies, analyzing case studies of companies using each strategy Case studies, developing marketing plans for hypothetical products	Text book Worksheets Class Board and Chalk and Duster Other reference books	Related to Economics (Micro) Factors affecting Demand and Supply
Topic: Marketing Mix No. Of Periods : 15-18 When: October	Define marketing mix and its components Understand interrelationship between elements Analyze different marketing mix combinations Differentiate pricing strategies Apply marketing mix to real-world scenarios Develop a marketing mix for a	Short answer questions, fill in the blanks, matching components with definitions Develop a detailed marketing mix for a given product, explaining the rationale behind each component.	Lectures, presentations, textbook reading, creating flashcards Group discussions, brainstorming sessions, analyzing examples of each P. Case studies, analyzing marketing strategies of different companies, comparing and contrasting marketing mixes. Debates on ethical considerations in pricing, comparing	Text book Worksheets Class Board and Chalk and Duster Other reference books	Acts as a basis of Business Class XII chapter Marketing Management

	product Choose pricing/promotional strategies Design a distribution channel		different pricing models, analyzing real-world pricing examples. campaigns, comparing different promotional techniques, discussing the effectiveness of various media channels. Simulations, case studies, developing pricing and promotional plans for different target markets Simulations, case studies, designing distribution channels for new products, considering logistics and supply chain		
Topic: Consumer Behaviour No. Of Periods : 15-18 When: November	The students will be able to: Define consumer behaviour and its importance Explain factors influencing consumer behaviour Describe the consumer buying decision process Analyze influences on purchasing decisions	Short answer questions, fill in the blanks, matching definitions Develop a marketing strategy that addresses the needs and motivations of a target market. Develop a comprehensive marketing campaign that addresses the needs and wants of a specific target market	Lectures, presentations, textbook reading, creating a glossary of key terms. Group discussions, brainstorming sessions, analyzing examples of each factor's influence Flowcharts, diagrams, role-playing the different stages, analyzing consumer purchase journeys Analyzing purchase scenarios, identifying the stage a consumer is in, discussing marketing strategies appropriate for each stage.	Text book Worksheets Class Board and Chalk and Duster Other reference books	Related to Economics (Micro) Factors affecting Demand and Supply

History

Topic / No. of Periods / When	Learning Outcomes	Assessment Tools	Activities	Resources	Interdisciplinary Activities
Theme 1: Writing and City Life (Mesopotamia, Third Millennium BCE) Sub-topics: • Introduction to World History • The significance of studying World History • Earliest Cities and Urbanisation • Growth of Towns • Development of Writing (Cuneiform Script) • Trade and Transport • Social Organisation • Religious Beliefs and Architecture • Debate on Writing No. of Periods: 18 When: April–May	Students will be able to: • Explain the importance of studying World History. • Describe the geographical features that led to the rise of Mesopotamian civilisation. • Analyse the emergence and growth of urban centres. • Explain the role of writing in administration, trade and communication. • Examine the economic, political and social life of Mesopotamia. • Develop historical thinking through source-based learning. • Compare ancient urban societies with present-day cities.	• Oral questioning • Classroom discussion • Source-based questions • Worksheet • Quiz • Exit Ticket • Map Work • Peer Assessment • Notebook Evaluation	• Locate Mesopotamia, Tigris and Euphrates on a world map. • Analyse photographs of Ziggurats, seals and cuneiform tablets. • Group Discussion: "Why did the earliest cities develop near rivers?" • Prepare a timeline of Mesopotamian civilisation.	• NCERT Textbook (Themes in World History) • Political World Map • Atlas • DIKSHA Resources • Archaeological Images • Charts • Internet Resources	Geography: River Valley Civilisations and Human Settlements. Political Science: Evolution of early states and governance. Economics: Trade, surplus production and division of labour. English: Reading and interpretation of historical sources. Art Education: Clay tablet and cuneiform writing activity. ICT: Digital timeline and presentation on Mesopotamia.

Theme 2: An Empire Across Three Continents (Roman Empire, 27 BCE–600 CE) Sub-topics: • Augustus and the Foundation of the Roman Empire • Political Evolution and Administration • Territorial Expansion • Roman Economy and Trade • Urban Life and Society • Slavery in the Roman Empire • Religion and Christianity • Culture and Architecture • Late Antiquity and the Decline of the Empire No. of Periods: 16 When: July	Students will be able to: • Describe the origin and expansion of the Roman Empire. • Explain the political and administrative structure of the Empire. • Analyse the importance of trade, taxation and urbanisation in Roman society. • Examine the institution of slavery and its impact on the Roman economy. • Explain the emergence and spread of Christianity. • Assess the causes of the decline of the Roman Empire and the significance of Late Antiquity. • Interpret historical maps and source-based evidence related to the Roman world.	• Oral questioning • Classroom discussion • Source-based questions • Worksheet • Timeline activity • Exit Ticket • Notebook assessment	• Prepare a timeline showing major Roman rulers and events. • Analyse excerpts from Roman historical sources. • Group Discussion: "Why was the Roman Empire one of the greatest empires of the ancient world?" • Compare the Roman administrative system with modern governments.	• NCERT History Textbook (Themes in World History) • Political World Map and Atlas Presentation • DIKSHA/NCERT Digital Resources • Historical Maps • Charts and Reference Books • Internet Resources	Political Science: Forms of government, citizenship and administration. Geography: Expansion of empires and Mediterranean geography. Economics: Trade networks, taxation and slavery as an economic institution. English: Reading and analysing historical narratives and primary sources. Art Education: Sketches/models of Roman monuments and architecture. ICT: Digital timeline and presentation on the Roman Empire.
Theme 2: Nomadic Empires	Students will be able to:	• Oral questioning	• Locate the Mongol Empire	• NCERT History Textbook	Geography: Grasslands, climate

(The Mongols, 13th–14th Century) Sub-topics: • The Nomadic Way of Life • The Rise of Genghis Khan • Formation and Expansion of the Mongol Empire • Military Organisation and Administration • Historians' Views on the Mongol Empire • Legacy of the Mongols No. of Periods: 10 When: July	• Explain the characteristics of nomadic societies and their lifestyle. • Describe the emergence of Genghis Khan and the formation of the Mongol Empire. • Analyse the factors responsible for the rapid expansion of the Mongol Empire. • Evaluate the administrative and military organisation of the Mongols.	• Classroom discussion • Source-based questions • Worksheet • Map work • Timeline activity • Notebook evaluation	• Prepare a timeline of the life of Genghis Khan and major Mongol conquests. • Source Analysis using extracts from historical accounts of travellers and historians.. • Watch a documentary on the Mongol Empire and present key findings. • Create a map showing the expansion of the Mongol Empire.	(Themes in World History) • Political World Map • Atlas • Presentation • DIKSHA/NCERT Resources • Historical Maps • Charts and Internet Resources	and migration routes of Central Asia. Political Science: Empire building, leadership and governance. Economics: Silk Route trade and commercial networks. English: Interpretation of travel accounts and historical narratives. Art Education: Poster or collage on Mongol culture and the Silk Route.
Theme 3: The Three Orders (Western Europe, 13th–16th Centuries) Sub-topics: • Introduction to Feudalism • The Three Orders – Clergy, Nobility and Peasantry • Feudal Society and Economy • Manorial System	Students will be able to: • Explain the concept and features of feudalism in medieval Europe. • Describe the roles and responsibilities of the three social orders. • Analyse the functioning of the manorial	• Oral questioning • Classroom discussion • Source-based questions • Concept map • Exit Ticket • Notebook evaluation	• Prepare a flowchart showing the feudal hierarchy. • Group Discussion: "Was feudalism beneficial for medieval society?" • Create a comparative table of Feudalism and Modern Democracy.	• NCERT History Textbook (Themes in World History) • Atlas and Political Map of Europe • DIKSHA/NCERT Digital Resources • Historical Illustrations • Charts and Reference Books • Internet	Political Science: Evolution of political institutions and governance. Geography: Physical features and settlement patterns of medieval Europe. Economics: Agrarian economy, manorial system and trade. English: Reading and interpretation of medieval historical

• The Church and Medieval Society • Emergence of Towns and Trade • Rise of States • Decline of Feudalism No. of Periods: 18	system and the feudal economy. • Examine the influence of the Church on medieval political, social and cultural life. • Assess the factors responsible for the growth of towns and the decline of feudalism. • Compare medieval social structures with modern social institutions.		• Prepare a timeline showing the rise and decline of feudalism.	Resources	sources. ICT: Digital presentation on medieval European society and feudal hierarchy.
Theme 3: Changing Cultural Traditions (c. 1300–1700) Sub-topics: • The Renaissance in Europe • Humanism and New Learning • The Revival of Art and Architecture • Printing Press and Spread of Knowledge • Scientific Discoveries and the Scientific Revolution • Protestant	Students will be able to: • Explain the causes and characteristics of the Renaissance. • Describe the ideas of Humanism and their influence on European society. • Analyse the contributions of Renaissance artists, writers and scientists. • Explain the role of the printing press in the spread of	• Oral questioning • Classroom discussion • Source-based questions • Worksheet • Picture analysis • Exit Ticket • Notebook evaluation	• Prepare a timeline of major Renaissance events. • Group Discussion: "Why is the Renaissance known as the birth of modern Europe?" • Prepare a comparative chart: Medieval Age vs Renaissance. • Create a newspaper front page announcing the invention of the	• NCERT History Textbook (Themes in World History) • DIKSHA/NCERT Resources • Atlas and Historical Maps • Paintings and Visual Sources • Reference Books • Internet Resources	English: Renaissance literature, Shakespeare and Humanism. Political Science: Reformation and changes in Church-State relations. Science: Scientific Revolution and contributions of Copernicus, Galileo and Newton. Art Education: Study and recreation of Renaissance paintings and sketches. ICT: Digital

	ideas and knowledge. • Examine the causes and impact of the Protestant Reformation. • Assess the significance of scientific discoveries in shaping modern thought. • Develop historical interpretation through paintings, literary sources and historical evidence.		printing press.		presentation on Renaissance artists and inventions. Library: Reading biographies of Renaissance personalities.
Revision of Themes I–III Coverage: • Theme 1: Writing and City Life • Theme 2: An Empire Across Three Continents • Theme 2: Nomadic Empires • Theme 3: The Three Orders • Theme 3: Changing Cultural Traditions Half-Yearly Examination No. of Periods:	Students will be able to: • Consolidate their understanding of all themes covered in the first term. • Establish chronological and thematic connections among different civilisations. • Analyse historical events using evidence and sources. • Interpret maps, timelines	• Chapter-wise worksheets • Competency-based questions • Source-based questions • Map work • Class test • Oral assessment • Peer assessment • Self-assessment checklist • Half-Yearly Examination	• Concept mapping of Themes I–III. • Prepare chapter-wise mind maps and summary charts.. • Practice CBSE assertion-reason, source-based and long-answer questions. • Group discussion on similarities and differences among ancient and medieval societies. • Timeline	• NCERT History Textbook • Revision Worksheets • Previous Year Question Papers • Atlas and Maps • DIKSHA Resources	English: Academic writing and comprehension of historical sources. Art Education: Preparation of concept maps, timelines and visual charts. Library: Reference reading for revision and enrichment.

16–18 When: September	and visual sources accurately. • Improve critical thinking, analytical writing and presentation skills.		preparation covering major events studied during the first term. • Doubt-clearing and revision sessions.		
Completion of Theme 3: Changing Cultural Traditions Theme 4: Displacing Indigenous Peoples Sub-topics: • European Expansion into the Americas and Australia • Who are Indigenous Peoples? • European Colonisation and Settlement • Impact on Indigenous Communities • Loss of Land, Resources and Identity • Resistance and Survival • Contemporary Recognition of Indigenous Rights No. of Periods: 18	Students will be able to: • Explain the meaning of indigenous peoples and identify their geographical distribution. • Analyse the causes and consequences of European colonisation in America and Australia. • Examine the social, economic and cultural impact of displacement on indigenous communities. • Evaluate different historical perspectives regarding colonial expansion. • Appreciate the importance	• Oral questioning • Source-based questions • Quiz • Worksheets • Map work • Classroom discussion • Notebook evaluation	• Locate major indigenous regions on a world map. • Analyse photographs and historical illustrations depicting indigenous life before and after colonisation. • Group Discussion: "Can development be justified at the cost of indigenous communities?"	• NCERT History Textbook (Themes in World History) • Political World Map • Atlas • Presentation • DIKSHA Resources • Historical Maps and Images • Reference Books • Internet Resources	Geography: Distribution of indigenous communities and natural resources. Political Science: Human rights, equality and constitutional values. Sociology: Identity, culture and social exclusion. English: Reading and analysing autobiographical and historical narratives.

When: October	of cultural diversity, human rights and social justice. • Interpret maps, visual sources and historical accounts related to indigenous societies.				
Completion of Theme 4: Displacing Indigenous Peoples Theme 5: Paths to Modernisation (Japan and China, 19th–20th Century) Sub-topics: • Meaning of Modernisation • The Meiji Restoration in Japan • Political, Economic and Social Reforms in Japan • Industrialisation and Education • China's Traditional Order • Western Imperialism in China • Reform	Students will be able to: • Explain the concept of modernisation in the context of world history. • Describe the factors responsible for the rapid modernisation of Japan under the Meiji Restoration. • Analyse the political, social and economic reforms introduced in Japan. • Explain the challenges faced by China during the nineteenth and twentieth centuries.	• Oral questioning • Classroom discussion - Competency-based worksheet • Timeline activity • Notebook assessment	• Prepare a comparative chart: Japan vs China – Path to Modernisation. • Locate Japan and China on a political map of Asia. • Prepare a timeline of important events from the Meiji Restoration and the Chinese Revolution. • Group Discussion: "Why did Japan modernise faster than China?"	• NCERT History Textbook (Themes in World History) • Political Map of Asia • Atlas • DIKSHA Resources • Historical Maps and Photographs • Reference Books • Internet Resources	Political Science: Nationalism, constitutional reforms and state-building. Geography: Natural resources, location and industrial development of Japan and China. Economics: Industrialisation, trade and economic reforms. English: Reading biographies and historical speeches. Art Education: Poster on the Meiji Restoration or the Chinese Revolution. comparing Japan and China.

Movements and the Chinese Revolution • Comparison of the Modernisation Process in Japan and China No. of Periods: 18 When: November	• Compare the paths of modernisation adopted by Japan and China. • Evaluate the impact of imperialism and nationalism on the transformation of Asian societies. • Interpret historical maps, visual sources and primary accounts related to modernisation.				
Theme 5: Paths to Modernisation (Continuation) Sub-topics: • Nationalism in China • The Revolution of 1911 • The May Fourth Movement • The Chinese Communist Revolution (1949) • Social and Economic Changes in China • Industrialisation and Modernisation in East Asia • Comparative Study of	Students will be able to: • Explain the events leading to the Chinese Revolution and the establishment of the People's Republic of China. • Analyse the role of nationalism, reform and revolution in China's transformation. • Compare the political, economic and social changes	• Oral questioning • Competency-based worksheet • Map work • Class Test • Notebook assessment	• Prepare a Venn Diagram comparing the modernisation of Japan and China. • Map Activity: Identify important places associated with the Chinese Revolution. • Group Discussion: "Was revolution necessary for China's modernisation?" • Create an	• NCERT History Textbook (Themes in World History) • Political Map of Asia • Atlas • DIKSHA/NCERT Resources • Historical Maps and Images • Reference Books • Internet Resources	Political Science: Revolution, nationalism and state formation. Economics: Industrial growth, planned development and economic reforms. Geography: Location, resources and industrial regions of East Asia. English: Analysis of historical speeches and biographies. Art Education: Timeline, infographic or poster on

Modernisation in Japan and China • Review and Consolidation of the Theme No. of Periods: 16 When: December	in Japan and China. • Evaluate the impact of modernisation on Asian societies. • Develop critical thinking through comparative historical analysis. • Interpret historical sources, maps and timelines related to East Asian history. • Apply historical concepts to competency-based and source-based questions.		infographic highlighting the key features of modernisation in East Asia.		modernisation in East Asia. ICT: Digital presentation and online collaborative learning activities.
Completion of Theme 5: Paths to Modernisation Annual Revision & Examination Preparation Coverage: • Completion of remaining portions of Theme 5 • Revision of Theme 1: Writing and City Life • Revision of Theme 2: An	Students will be able to: • Consolidate their understanding of all themes covered during the academic session. • Establish chronological, thematic and comparative links between different civilisations and historical	• Revision worksheets • Chapter-wise tests • Competency-based questions • Source-based questions • Map work • Oral assessment • Peer and self-assessment • Mock tests	• Prepare chapter-wise mind maps and concept maps. • Timeline activity covering all themes. • Map practice for important regions, empires and trade routes. • Group Quiz on World History. • Practice CBSE sample papers and previous year questions.	• NCERT Themes in World History • Teacher-prepared revision notes • CBSE Sample Question Paper • Practice Worksheets • Atlas and World Maps • DIKSHA Resources • Reference Books	Geography: Revision of historical maps and locations. Political Science: Evolution of political institutions across civilisations. Economics: Comparative study of economic systems and trade networks. English: Reading comprehension, historical writing and source

Empire Across Three Continents • Revision of Theme 2: Nomadic Empires • Revision of Theme 3: The Three Orders • Revision of Theme 3: Changing Cultural Traditions • Revision of Theme 4: Displacing Indigenous Peoples • Revision of Theme 5: Paths to Modernisation No. of Periods: 20–22 When: January–February	developments. • Apply historical concepts while answering competency-based, source-based and case-based questions. • Analyse maps, timelines and visual sources effectively. • Develop confidence in structured answer writing as per CBSE examination pattern.	• Annual Examination	• Source-based question practice using extracts and visual evidence. • Doubt-clearing sessions and peer teaching. • Create a comparative chart of major civilisations and historical developments studied during the year.	interpretation. Art Education: Preparation of charts, timelines and concept maps for revision.
--	--	--	--	---

Political science

Topic No. of periods When	Learning Outcomes	Assessment Tools	Teaching Learning Strategies / Activities	Resources	Interdisciplinary Activities
Topic:1 Constitution When and how? April-May No of periods:10 Topic:2 Rights in the Indian	After completion of the chapter, students will be able to: Appreciate the need for a constitution. Understand the historical processes and the circumstances in which the Indian constitution was drafted. Critically evaluate how constitutions, govern the distribution of powers in society. Analyze the ways in which the provisions of the constitution have worked in real political life. Students will be able to: Analyze the	Debate on “ is constitution a living Document? Group discussion: should the right to privacy be	Comparative analysis: different constitutions Reading of the preamble What happens in an organization in the absence of a set of rules and regulations to run it. How far our National Movement influenced the framing of our constitution? Time/ Flow chart Question strategy Quiz	NCERT political science Reference books(eg. B. B Tayal) Articles on constitutional development Case laws: kesavananda Bharti case News paper	History: Timeline of constitution- making in India and globally Collage on fundamental rights vs duties (Art)

constitution	working of the constitution in real life. Learn to respect others, think critically and make informed decisions Identify violations of the rights to equality and freedom in the society around them Justify the need for reasonable restrictions on the rights guaranteed. Use freedom of expression to advocate for ensuring rights is given to people around them.	absolute?		Articles	
No of periods 8					
Topic:3 Election and representation July No of periods:7	Students will be able to : Identify different types and methods of elections Develop critical thinking about the role of various stakeholders in ensuring free and fair elections Demonstrate the innate role played by election commission	Group discussion: design a fair election model	Conducting mock elections Comparative analysis: Election process of different countries Group discussion: Challenges and reforms	Election commission of India website	Mock elections in class Economics: impact of elections on economy.

	Compare election systems of different				
Topic:4 Executive July No of periods: 8	Countries Students will be able to: Recognize the meaning of executive. Compare and contrast the parliamentary and presidential executive. Analyze the composition and functioning of	Mcqs on different types of executives Essay on prime Minister vs president who is more powerful	Comparative Analysis: Different forms of Executive Interpretation of cartoon/ caricatures Discussion and debate: powers and functions of the real and nominal executive Quiz	Article52-78(powers of prime Minister and president) Documentary: The Indian Bureaucracy	English: report writing on president's role in a crisis

	the executive. Know the significance of the administrative machinery				
Topic:5 legislature July No of periods :6	Students will be able to: Describe the law making process in Indian. Differentiate between the powers and functions of lok sabha and Rajya Sabha Examine the parliamentary control over the executive. Analyze the role of parliamentary committees for the success of Indian democracy	Case study: Anti defection law	Comparative analysis: Powers and functions of lok sabha and Rajya Sabha Passing of a bill- class activity/Mock parliament Cartoon interpretation	Live lok Sabha/Rajya Sabha on TV	History: comparing Indian parliament with other countries
Topic:6 judiciary August No of periods:8	Students will be able to: Identify the different aspects which makes the Judiciary independent Compare and contrast the different jurisdictions Analyze the reasons why judiciary has become proactive Examining the reasons for the	Debate: judicial Activism- Boon or Bane?	Discussion: Enhancing assertiveness of the Indian judiciary. Debates: How far separation of powers is practiced?	Case study on PIL and judicial activism	History: Evolution of judicial review

Topic:7 Federalism August No of periods:7	conflicts between judiciary and parliament with respect to constitutional Amendments Students will be able to: Explain the basic features of a federation Identify the different levels of the government and subjects on which the union and state governments can make laws. Discuss the various constitutional provisions that led to a strong centre in India	Case study: president's rule in states	Cartoon interpretation Textual reading Group discussion/ debate: prevailing issues in centre-state relations Map Activity	Article 370 discussion	Geography: Map Activity States with special status
Topic:8 local Government August No of periods:8	Students will be able to Understand the Panchayat Raj System of local government of India. Its emergence and significance Identify the objectives, functions and sources of Income of rural	Poster on women's role in parliament	Recapitulation of definitions Timeline: Depicting the emergence of local government. Flowcharts: on the structural arrangements of Panchayati Raj Concept maps: The functions of local government bodies at the rural and urban level Group presentation: Amendments Debate/ Group	Case study of successful local governance	Economics: Budget allocation in local government

and urban local government bodies. Justify the significance of 73rd and 74th constitutional Amendments. Acknowledge and examine the significance of decentralization. Introspect and realize the need to empower local government bodies Topic:9 constitution as a living document September No of periods: 6	Students will be able to Analyze the working of the constitution. Know the various Amendments that have taken place and the controversies raised. Appreciate Why the constitution is called a living Document.	Group discussion on controversial amendments Debate: should the constitutions be written?	discussion: The merits and demerits of decentralization Brainstorming : to assess the achievements and drawbacks of our constitution. Debate: should the Judiciary has the power to determine the validity of amendments? Discussion: Are the amendments in the constitution as per the needs and circumstances or guided by the whims and fancies of the ruling party? Group discussion: Guiding philosophy of the Indian constitution. Question strategy	News articles on recent amendments Dr. B.R .Ambedkar speech on the constitution	English: letter to editor on constitutional changes. Art: calligraphy of preamble
Topic 10. .The					

Philosophy of the constitution	Students will be able to Appreciate the philosophical vision of our constitution Recognize the core features of the constitution Evaluate the strengths and limitations of the constitution		Quiz Reading the work of great thinkers		
October			Collecting political cartoons from various newspapers and magazines and discussing the issues raised Reading the work of great thinkers Quiz	NCERT text book Documentary on political thoughts	Historical Evolution of political thoughts
No of periods:6		Mcqs, short questions			
Topic:1					
Political theory: An introduction.	Students will be able to: Define the term politics and identify various political principles. Explain the innate ideas of various political theories. Appreciate the contribution of political thinkers(example: Jean Jacques Rousseau				
October					
No of periods 8		Essay on freedom vs Authority Group discussion	Discussion: individual freedom Debate: does dress code curtail individual freedom? Comparative analysis: Negative and positive liberty	Rousseau, John Locke concepts of positive and negative liberty	History (Three main movements against the British during colonial rule)
Topic:2					
freedom					
October					
No of periods:10	Students will be able to: Appreciate the ideal of freedom Critically evaluate the dimensions of negative and positive liberty. Demonstrate spirit of equality Explain the				

Topic:3 Equality November No of periods 12	ideas introduced by J.S Mill in Harm Principle. Assess the possible limitations on freedom resulting from the social and economic structures of society . Students will be able to: Understand the moral and political ideas of equality. Assess how equality is perceived through different ideologies. Recognize the means and methods to promote equality Students will be able to: Classify the different dimensions of justice Appreciate the measures taken by the government of India to secure social justice Enlist the basic minimum requirements of people for living a healthy and productive	Case study- social inequalities Research project on social justice issues Case study on human rights violation	Discussion and debate: promotion of equality Reading the book of great thinkers. Role play Debate: free market versus state Intervention Comparative Analysis: Dimensions of justice Discussion: importance of rights Comparative analysis: Different types of rights	Text book, Rawls theory of justice Ambedkar “s writings, Rawls theory of justice UN declaration of Human rights, Indian constitution	History (civil rights movement.south Africa and French revolution) Economics: wealth distribution Welfare schemes introduced by the government for the upliftment of economically weaker sections Caste system in ancient India Reservation after independence History: comparative study of status of women in India before and after independence
---	--	---	--	---	---

Topic:5 Rights January No of periods 8	life. State John Rawls theory of veil of ignorance. Students will be able to Define rights. Identify the need for rights and its importance to mankind. Explain why rights need to be sanctioned by law. Describe the features of different kinds of rights.				
Topic:6 Citizenship January No of periods 8	Students will be able to: Explain the meaning of citizenship. Contribute to meaningful discussion on ways of granting citizenship. Discuss the probable solutions or alternatives to solve citizenship issue. Analyze the problems to be surmounted to strengthen links between the people and governments Students will be able to: Understand	Comparative study of different citizenship laws	Debate: should India grant dual citizenship? Interpretation of Newspaper articles	Case study of refugees	English: Article writing Geography: migration Map Activity (locate and label the countries where maximum migration takes place from Asia)
Topic:7 Nationalism January No of periods:6	Students will be able to: Explain the meaning of citizenship. Contribute to meaningful discussion on ways of granting citizenship. Discuss the probable solutions or alternatives to solve citizenship issue. Analyze the problems to be surmounted to strengthen links between the people and governments Students will be able to: Understand	Essay on Nationalism vs globalization	Recapitulation of definitions Group interaction: The factors that help in creating the sense of collective identity Textual explanation Debate: can identity claims lead to social divisions or will it strengthens and recognize	Gandhi Ji and Nehru 's perspective on Nationalism	History- Indian National Movement Hitler rule in Germany as an example of extreme Nationalism

Topic:8 Secularism January No of periods:10	the concepts of Nation and Nationalism Assess the strengths and limitations of Nationalism Identify and build an understanding on the factors related to creation of collective identities. Examine the concept of national self determination Acknowledge the need to make nations more democratic and inclusive Students will be able to: Define secularism Differentiate between inter-religious and intra-religious domination. Recognize the concept of a secular state. compare western and Indian model of secularism. Make an appraisal of Indian secularism	Comparative analysis of secular model	multiple identities? Discussion and debate: on Indian secularism Inquiry based learning Comparative study: western model and Indian model of secularism	Secularism in India vs .West	English: debate History: Compare and research secularism in India and other countries Gandhiji's views on religion and politics
---	--	--	---	-------------------------------------	--

BIOLOGY

Topic/Month	Learning Outcomes	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Interdisciplinary Activities
APRIL & MAY Chapter 1: Living World - Diversity in the living world - Taxonomic categories	Students will be able to: - Differentiate organisms, phenomena and processes based on certain characteristics and salient features. (analysing, identifying) - Apply scientific terminology for organisms, processes, and phenomena based on internationally accepted conventions like Binomial nomenclature, systematics and taxonomy. - Classify organisms into appropriate taxonomic categories based on provided characteristics. - Interpret phylogenetic trees and cladograms to infer evolutionary relationships. - Evaluate the effectiveness of different classification criteria in grouping organisms. - Apply knowledge of biological classification to analyse real-world scenarios and solve classification-related problems.	NCERT back exercise questions. MCQ Assignment Oral test	Lecture Method - Writing binomial nomenclature for common organisms. - study of Parts of a compound microscope	NCERT book Compound microscope Chalk board Biology lab material	Use mathematical models to simulate population growth and explore the impact of environmental factors.
Chapter 2: Biological Classification Topic: - Two Kingdom - Classification - Five kingdom - Classification	Students will: be able to explain the hierarchical classification system, including the levels of classification (e.g., kingdom, phylum, class, order, family, genus, species), and the criteria used for classification (morphological, anatomical, physiological,	NCERT back exercise questions. MCQ Assignment Oral test	Lecture method concept map of five kingdom classification on paper	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Use mathematical concepts, such as phylogenetic trees, to construct taxonomic trees that show the relationships between different

● Kingdom Monera ● Kingdom Protista ● Kingdom Fungi ● Kingdom Plantae ● Kingdom Animalia ● Viruses, Viroids and ● Lichens	genetic). ● Explain the concept of the Two Kingdom Classification proposed by Linnaeus and Five Kingdom Classification system proposed by R. H. Whittaker, including the characteristics and examples of organisms in each kingdom (Monera, Protista, Fungi, Plantae, and Animalia). ● be able to describe the distinguishing characteristics of major kingdoms, such as the presence of cell walls in plants and fungi, the mode of nutrition in different groups (autotrophs, heterotrophs), and the diversity of organisms within each kingdom. ● Gain knowledge of the classification and subgroups under Monera, Protista and Fungi ● be able to differentiate between Viruses, Viroids and Prions.		mentioning ● key words for each group		organisms.
Chapter 3: Plant Kingdom Topic: ● Algae ● Bryophytes ● Pteridophytes ● Gymnosperms	Students will: ● be able to classify plants into major groups based on characteristics such as presence or absence of vascular tissue, seeds, flowers, and fruits. ● Understand the characteristics and life cycle of bryophytes (mosses, liverworts, hornworts) and their adaptations to terrestrial habitats. ● Describe the features and reproduction of pteridophytes (ferns, horsetails, club mosses) and their evolutionary significance as vascular plants. ● Understand the unique characteristics of	NCERT back exercise questions. MCQ Assignment Oral test	Inquiry based learning Spotting: Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledon	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Use mathematical models to analyze and predict plant growth patterns.

	gymnosperms, such as naked seeds, cone structures, and adaptations for pollination and seed dispersal.		ous plant, one dicotyledonous plant and one lichen.		
Chapter 4: Animal Kingdom Topic: ● basis of classification ● Levels of Organisation ● Symmetry ● Diploblastic and ● Triploblastic ● Coelom ● Segmentation ● Notochord ● Classification of Animals	Students will: ● be able to identify different levels of body organisation ● be able to classify animals into major phyla based on their characteristic features and understand the evolutionary relationships among these phyla. ● Classify animals into major phyla based on characteristic features such as body symmetry, presence of body cavity, segmentation, and other morphological traits. ● Describe the diversity of animal life, including examples of organisms from each major phylum and their key characteristics. ● define a vertebrate as an organism that possesses a backbone, ● recall that organisms belonging to the chordate phylum will possess a notochord, state the classes included in the chordate phylum and vertebrate subphylum as Amphibia, Reptilia, Aves, Mammalia, Agnatha, Chondrichthyes, and Osteichthyes, give some defining characteristics of each of these classes and classify given organisms into these classes.	NCERT back exercise questions. MCQ Assignment Oral test	Inquiry based learning Spotting: Virtual specimens/slides/models and identifying features of -Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Use mathematical equations to model and analyze animal population dynamics.

Chapter 5: Morphology of Flowering plants Topics: ● The Root ● The Stem ● The Leaf ● The Inflorescence ● The Flower ● The Fruit ● The Seed ● Semi-technical description of Typical Flowering plant ● Description of family Solanaceae	Students will: ● be able to identify and label different parts of a flowering plant, including roots, stems, leaves, flowers, fruits, and seeds. ● reveal the diversity among flowers in terms of calyx, corolla, gynoecium, placentation ● will recall the terminology associated with calyx, corolla, androecium, gynoecium. ● differentiate between given flower on basis of their floral structures ● understand and explore role of different whorls of flower in their daily life ● Explore relationship of gynoecium and other floral structure in different flowers. ● Understand the arrangement of whorls in flower, placentation describe the flower in technical terms. ● write floral formula of any flower can classify the flower on basis of their floral designs and can assign it's family	NCERT back exercise questions. MCQ Assignment Group Discussion	Demonstration method Inquiry based learning Study and describe locally available common flowering plants, from family Solanaceae, Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). Different types of inflorescence (cymose and racemose).	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Students create detailed drawings and paintings of different flower types, highlighting their morphology.
--	--	---	--	---	--

JULY- AUGUST Chapter 6: Anatomy of flowering plants Topic: • The tissue system • Anatomy of Dicotyledonous and Monocotyledonous Plants	Students will be able to: • be able to identify and describe the characteristics of epidermal tissue in plants, including its location, structure, and functions. • understand the protective functions of the epidermal tissue, such as preventing water loss, regulating gas exchange, and providing a physical barrier against pathogens and environmental stresses. • be able to describe the structure and functions of trichomes, specialized epidermal cells that can aid in reducing water loss, deterring herbivores, and trapping moisture and nutrients. • Explain the functions of ground tissue, such as storage of nutrients, support, and photosynthesis. • be able to differentiate between anatomy of monocot and dicot root, stem and leaf.	NCERT back exercise questions. MCQ Assignment Group Discussion	Activity based learning Study of external morphology of Frog through museum specimen/virtual images/models.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Students create detailed drawings of different flower types, highlighting their anatomy.
Chapter 7: Structural organisation in Animals Topic: • Organ and Organ System • Morphology and anatomy of Frog	Students will: • be able to identify and describe the external morphological features of a frog, including body shape, skin characteristics, limbs, eyes, nostrils, tympanum, and mouthparts. • understand the internal anatomy of a frog, including the digestive system (mouth, oesophagus, stomach, intestines), respiratory system (lungs and skin), circulatory system • (heart and blood vessels), excretory system	NCERT back exercise questions. MCQ Assignment Group Discussion	Demonstration Lab Activity Study of external morphology of Frog through museum specimen/virtual images/models.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Using their artistic skills students will draw the beautiful anatomical diagrams of different systems in frog.

	(kidneys and urinary bladder), and reproductive system.				
Chapter 8 : Cell : The unit of life Topics: - Cell - Cell theory - Cell structure - Different types of cells - Cell organelles	Students will: - Define and explain the concept of a cell and its importance in living organisms. - Describe and identify the different components of a cell, including the plasma membrane, cytoplasm, nucleus, and organelles. - Explain the functions of different cell organelles, such as mitochondria, endoplasmic reticulum, and ribosomes.	NCERT back exercise questions. MCQ Assignment Group Discussion	Collaborative Learning Approach Students draw and label a diagram of a cell, including its organelles and structures.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Students create detailed diagrams of the cell.
Chapter 9: Biomolecules Topic - How to analyse Chemical composition - Primary and secondary - Metabolites - Biomacromolecules Proteins - Polysachharides - Nucleic Acid - Structures of Proteins - Enzymes	- Students will be able to: - understand that biological macromolecules like cellulose, proteins and DNA are polymers made of monomers with distinct chemical properties describe the formation and breakage of a glycosidic bond with reference both to polysaccharides and to disaccharides including sucrose - describe the molecular structure of polysaccharides including starch (amylose and amylopectin), glycogen and cellulose and relate these structures to their functions in living organisms - describe the structure of an amino acid and the formation and breakage of a peptide bond - explain the meaning of the terms primary structure, secondary structure, tertiary	NCERT back exercise questions. MCQ Assignment NCERT Exemplar questions Draw and practice the structures of various biomolecules	Hands On Activity: Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Use mathematical models to simulate the structure and behaviour of biomolecules, such as proteins and DNA.

	structure and quaternary structure of proteins and describe the types of bonding (hydrogen, ionic, disulfide and hydrophobic interactions) that hold the molecule in shape Describe the molecular structure of haemoglobin as an example of a globular protein, and of collagen as an example of a fibrous protein and relate these structures to their functions (the importance of iron in the haemoglobin molecule should be emphasised).				
Chapter 10: Cell cycle and cell division Topics: - cell cycle - phases of cell cycle - Mitosis and Meiosis	Students will be: - Describe the different stages of the cell cycle, including interphase, prophase, metaphase, anaphase, and telophase. - Explain the process of mitosis, including the separation of sister chromatids and the formation of two daughter cells. - Explain the process of meiosis, including the separation of homologous chromosomes and the formation of four haploid daughter cells. - Label and describe the different stages of cell division, including prophase, metaphase, anaphase, and telophase. - Describe the importance of cell division in growth, repair, and reproduction.	NCERT back exercise questions. MCQ Assignment NCERT Exemplar questions Draw and practice the stages of mitosis and meiosis.	Demonstration Mitosis Match: Create a matching game where students match the different stages of mitosis with their descriptions.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Students to create animations of the mitosis process using digital tools.

OCTOBER-NOVEMBER Chapter 11: Photosynthesis in higher plants Topics: - Where does Photosynthesis take place? - How many Pigments are involved in Photosynthesis? - What is Light Reaction? - The Electron Transport - Where are the ATP and NADPH Used? - The C4 Pathway - Photorespiration - Factors affecting Photosynthesis	Students will be - Understand the process of photosynthesis, including the role of chloroplasts, pigments, and light energy in converting carbon dioxide and water into glucose and oxygen. - Explain the significance of photosynthesis in providing energy for plants and ultimately for all living organisms in the food chain. - Describe the structure and function of chloroplasts, including the organization of thylakoids and the role of photosystems in light dependent reactions. - Discuss the importance of photosynthesis in maintaining oxygen levels in the atmosphere and mitigating climate change	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lab activity Separation of plant pigments through paper chromatography	NCERT back exercise questions. MCQ Concept map Assignment Draw and practice the diagrams related to the chapter	Students create detailed diagrams of biochemical processes, such as photosynthesis.
Chapter 12:Respiration in plants Topics: - Do Plants Breathe? - Glycolysis - Fermentation	Students will be able : - Understand the process of respiration in plants, including the different stages such as glycolysis, Krebs cycle, and oxidative phosphorylation. - Explain the role of mitochondria in cellular respiration and the production of ATP. Describe the differences between aerobic	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lab Activity Study of the rate of respiration in flower buds/leaf tissue and germinating seeds	NCERT back exercise questions. MCQ Assignment Draw and practice the diagrams, flow	Students can integrate maths with biology to calculate the various respiratory equations.

● Aerobic Respiration ● The Respiratory Balance ● Sheet Amphibolic Pathway ● Respiratory Quotient	and anaerobic respiration in plants and their significance. ● Explore the factors affecting the rate of respiration in plants, such as temperature, oxygen availability, and the presence of inhibitors.			chart and cycles related to the chapter	
Chapter 13: Plant Growth and development Topics: ● Growth ● Differentiation, ● Dedifferentiation and ● Redifferentiation ● Development ● Plant Growth Regulators	Students will: ● be able to describe the phases of plant growth, including germination, vegetative growth, reproductive growth, and senescence, and understand the key events and processes Occurring during each phase. ● understand different growth rates ● Learn about dedifferentiation, where specialized cells revert to a less specialized state (e.g., formation of callus tissue), and redifferentiation, where dedifferentiated cells regain specialized functions (e.g., regeneration of roots or shoots), and their significance in plant regeneration, tissue culture, and vegetative propagation. ● explore the role of plant growth hormones (Auxins, gibberellins, cytokinins, abscisic acid, ethylene) in regulating cell division, elongation, differentiation, and tissue development, and understand how hormone balance influences growth responses.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lecture Method Activity: class quiz	NCERT back exercise questions. MCQ Assignment	Students will integrate the chemistry along with biology to understand the composition of various plant hormones.

Chapter 14 : Breathing and exchange of gases Topic: ● Respiratory organs ● Mechanism of Breathing ● Exchange of Gases ● Transport of gases ● Regulation of respiration ● Disorders of Respiratory ● System	Students will: ● familiarize with different Respiratory organs ● Be able to identify and describe the structures involved in the Human respiratory system, including the nose, pharynx, larynx, trachea, bronchi, bronchioles, and alveoli. ● Understand the process of breathing, including inspiration (inhalation) and expiration (exhalation), and the role of the diaphragm and intercostal muscles in creating changes in thoracic volume. ● Describe the process of gas exchange in the alveoli, including diffusion of oxygen from alveolar air into the bloodstream and diffusion of carbon dioxide from the bloodstream into alveolar air. ● Explain the transport of oxygen and carbon dioxide in the blood, including their binding to haemoglobin, formation of oxyhemoglobin and carbamino hemoglobin, and factors affecting oxygen-haemoglobin dissociation curve. ● Be able to calculate and interpret respiratory volumes and capacities, such as tidal volume, inspiratory reserve volume, expiratory reserve volume, and vital capacity, and understand their significance in respiratory physiology.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lecture Method Activity: Class quiz	NCERT back exercise questions. MCQ Concept map Assignment Draw and practice the diagrams related to the chapter	Maths with biology for calculation of respiratory rate in human beings.
---	--	---	---	---	---

DECEMBER- JANUARY Chapter 15: Body fluids and circulation Topic: ● Blood ● Lymph (Tissue Fluid) ● Circulatory Pathways ● Double circulation ● Regulation of Cardiac Activity ● Disorders of circulatory system	Students will: ● be able to describe the components of blood ● understand the concept of circulation, including ● the systemic circulation (from heart to body tissues and back) and pulmonary circulation (Between heart and lungs), and the role of blood vessels (arteries, veins, capillaries) in transporting blood. ● identify and describe the structures of the cardiovascular system, including the heart (Chambers, valves, conduction system), blood vessels (types, layers), and lymphatic system (lymph nodes, vessels). ● explain the cardiac cycle, including systole (Contraction) and diastole (relaxation) phases of the heart, and how heart rate, stroke volume, and cardiac output are regulated. ● Know about blood groups.	NCERT text book of Biology Biology Lab Material Chalk Board	Lecture Method Activity: Counting the pulse in one minute and recording the observation	NCERT back exercise questions. MCQ Concept map Assignment Draw and practice the diagrams related to the chapter	Maths with biology for calculation of pulse rate and cardiac output.
Chapter 16: Excretory products and their elimination Topic: ● Human Excretory system ● Urine formation ● Function of tubules ● Mechanism of concentration of	Students will be able to: ● Describe the structure and function of the human excretory system, including the kidneys, ureters, bladder, and urethra. ● Explain the process of urine formation, including filtration, reabsorption, and secretion in the nephrons. ● Identify the role of the renal tubules, collecting ducts, and loop of Henle in urine concentration and dilution. ● Discuss the regulation of kidney function by	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lecture Method Group discussion discussion on ethical issues related to kidney health and organ donation	NCERT back exercise questions. MCQ Assignment Draw and practice the diagrams in the chapter	Social science with biology to discuss the ethical issues related with organ donation.

Filtrate ● regulation of Kidney function ● Micturition ● Role of other organs in excretion ● disorders of excretory system	hormones such as antidiuretic hormone (ADH) and aldosterone. ● Discuss the excretory systems of other organisms, such as amoeba, earthworm, and cockroach, and compare them with human excretion mechanisms.				
Chapter 17: Locomotion and Movement Topics: ● Types of Movement ● Muscle ● Skeletal System ● Joints ● Disorders of Muscular and Skeletal System	● Describe the types of movements exhibited by living organisms, including locomotion, muscle contraction, and joint movements. ● know about types of muscle based on their location. ● Explain the structure and function of skeletal muscles ● Discuss the process of muscle contraction, including the role of calcium ions, actin, myosin, and ATP in the sliding filament theory. ● Develop understanding of Human Skeletal system.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Lab Activity Spotting: Human skeleton and different types of joints with the help of virtual images/models only.	NCERT back exercise questions. MCQ Assignment	Maths with biology to calculate the number of bones in human body.
Chapter 18: Neural control and Coordination Topics: ● Neural System ● Human Neural System ● Neuron as	Students will: ● Understand the structure and function of the nervous system, including neurons and their types. ● Explain the mechanism of generation and conduction of nerve impulses. ● Describe the structure and function of the human brain, including different regions and	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Activity: concept map of parts of nervous system.	NCERT back exercise questions. MCQ Assignment NCERT Exemplar questions Draw and practice	Chemistry with biology in studying the functions of nervous system.

Structural and Functional Unit of Neural System Central Neural System	their roles. - Explore the concept of reflex actions and their significance in the nervous system. - Discuss the disorders related to the nervous system and their impact on human health.			the diagrams of the chapter	
Chapter 19 :Chemical Coordination and integration Topics: - Endocrine Glands and Hormones - Human Endocrine System - Hormones of Heart, Kidney and Gastrointestinal Tract - Mechanism of Hormone Action	Students will: - Describe the endocrine glands and their functions, such as the pituitary gland, thyroid gland, adrenal glands, pancreas, and gonads. - Analyse the feedback mechanisms that regulate hormone secretion and their importance in controlling hormonal balance. - Explore the functions of major hormones such as insulin, glucagon, adrenaline, cortisol, growth hormone, thyroid hormones, and sex hormones. - Investigate the role of hormones in growth, development, and reproduction processes in humans and other organisms. - Discuss the disorders related to hormonal imbalances, such as diabetes mellitus, hypothyroidism, hyperthyroidism, and adrenal insufficiency.	NCERT text book of Biology Biology Lab Material Chalk Board Audio Visual aid	Activity: Making of Placards of each gland and their role	NCERT back exercise questions. MCQ Assignment Draw and practice the diagrams related to the chapter	Chemistry with biology in studying the effects of various hormones in human body.

PHYSICS

Topics/ No. of periods When	Learning Outcomes	Assessment Tools	Teaching Learning Strategies	Resources	Interdisciplinary Activities/ Practicals
Topic: CH 1: Units and dimensions No of periods: 08 When: APRIL	Students will be able to *Recognise the concepts of Physics related to various natural phenomena, such as, force, momentum, velocity. * Understand the various systems of units and their utility. *Use International system of units (SI Units), symbols, nomenclature of physical quantities and formulations, conventions *Identifies and applies the concept of dimensions, dimensional formulae and dimensional analysis techniques to write, validate and derive correct physical equations *Estimates precise experimental results using significant figures and rounding off the final results.	Assignments Blackboard test (dimensional formulas, significant figures)	Inquiry based learning. Lecture based	N.C.E.R.T Textbook Reference books. Open-source referrals.	To make a paper scale of given Least Count. Subjects Integrated: Maths, Art Lab Activities 1. Determination of diameters of objects using vernier callipers. 2. Determination of diameters of objects using screw gauge.
Topic: CH 2. Motion in a straight line No of periods: 10 When: MAY	Students will be able to *Differentiates between certain physical quantities. *Apply the motion in 1D,2D and 3D motion in day to day life.	Assignments Oral questions Mind Map	Inquire method Experiential learning. Co-operative learning.	N.C.E.R.T Textbook Sports Ground Reference books.	"Tracking Motion – A Blend of Science, Math & Technology" (To integrate Physics with Mathematics, Computer Science, and Physical Education through a

	*Applies concepts of Physics in daily life with reasoning while decision-making and solving problems. *Plot position-time; velocity-time and acceleration-time graphs for a body under free fall. *Derives and explains kinematic equations of linearly accelerated motion. *Appreciates the application of kinematic equations of linear motion to freely falling bodies. *Defines average and instantaneous acceleration of the ratio of change in velocity vectors to time. *Applies differential calculus to determine velocity and acceleration vectors from a given position vector expressed as a function of time.			Open-source referrals.	practical and analytical approach.) Lab Activity 3.Determination of radius of curvature by spherometer.
Topic: Ch 3. Motion in a plane No of periods:14 When: July	Students will be able to *Explains scalar and vector quantities and their mathematical operations. *Defines and represents graphically the position and displacement vectors for a given set of position vectors at different times of a body moving in a plane. *States triangle law and parallelogram law of vector addition for	Assignments. Periodic test. Homework Mind Map	Lecture method Experiential learning. Inquiry based learning. Co-operative learning.	N.C.E.R.T Textbook Reference books. Physics lab activities Sports ground Open-	"Exploring Projectile Motion through Sports. Subjects integrated Physics, maths, physical -education. Lab activity 4. Verification of law of parallelogram and determination of unknown weight

	adding two or more vectors. *Explains the multiplication of vectors using scalar product method. *Explains the resolution of vectors in a plane and in space in terms of two or more vectors. *States and derives the equations of a uniformly accelerated motion of a body in a plane using vectoral notation. *Defines average and instantaneous velocity of a body in motion in a plane in terms of unit vectors. *Recognises that a motion in two dimensions can be treated as two simultaneous one-dimensional motions with constant accelerations along perpendicular directions. *Describes projectile motion and derives all equations related to projectile motion. *Applies the concepts of vectors to explain the motion of a body along a circular path.			source referrals.	
Topic: Ch 4. Laws of Motion No of periods:14 When: JULY	Students will be able to *States Newton's first law of motion and identifies the role of inertia in common day to day experiences *Explains Newton's second law of motion; discovers its mathematical differential formulation. *States Newton's third	Assignments. Periodic test. Activity Flow Chart	Lecture and Demonstration method Experiential learning. Inquiry based learning. Co-operative learning.	N.C.E.R.T Textbook Reference books. Physics lab Open-source referrals.	To show the working of Newton's cradle depicting Law of conservation of momentum Lab Activity 5.Determination of coefficient of friction on horizontal surface 6.Determination of

	law of motion and infers the Law of conservation of momentum from Newton's second and third laws. *Applies the Law of conservation of momentum to the collisions of bodies in 1- and 2- dimensional motion. *Identifies common mechanical forces that act on a body at rest or motion. *Describes the dynamics of motion of a car along a circular track. *Writes and solves free body equations in mechanics.				coefficient of friction on an inclined plane
Topic: Ch:5 Work,Energy and Power No. of periods:14 When: AUGUST	Students will be able to * Understand the concept of Scalar Product, Work Done By Constant Force and Variable Force. *Derives the equation of work-energy theorem from the equation of a uniformly accelerated motion and applies the theorem of work energy to solve numerical problems. *Defines and derives kinetic energy of a body in motion. *Understand the concept of conservative and non conservative forces. *Describes the concept of the potential energy of a body in relation to conservative forces acting on a body. *Explains and represents graphically	Assignments. Oral test .	Demonstrative method Experiential learning. Inquiry based learning. Co-operative learning.	N.C.E.R.T Textbook Reference books. Physics lab Open-source referrals	Using law of conservation of energy the speed and kinetic energy of an object when falling from a certain height will be calculated. Subjects integrated: Science ICT, maths, art, sports

	the variation of potential energy and kinetic energy of the spring-block system as it moves back and forth. *Identifies various forms of energy and states the law of conservation of energy. *Explains collisions between two bodies moving along a straight line or in a plane.				
Topic: Ch 6 Systems of particles and rigid body No. Of periods:18 When: AUGUST	Students will be able to *Defines and describes centre of mass of a rigid body and derives formula for linear momentum of a system of particles. *Defines the various angular variables associated with a rigid body in rotational motion around a fixed axis. *Understand the concept of torque, angular momentum and their applications. *Defines the various angular variables associated with a rigid body in rotational motion around a fixed axis. *Recognises the conditions of mechanical equilibrium in a rigid body. *Defines moment of inertia as an analogue of mass of a rigid body in rotational motion and proves the two theorems related to moment of inertia of a rigid body about a fixed axis. *Writes the rotational	Assignments.	Inquiry based approach Discussion method Activity method Laboratory method Experiential learning	N.C.E.R.T Textbook Reference books. Physics lab activities Open-source referrals	Using C.D. and ring moment of inertia and centre of mass will be demonstrated

	analogous equations of motion to linear equations for a body in uniform rotational motion and applies them to solve problems. *States and derives kinematic equations of a rigid body and explains dynamics of rotational motion of a rigid body in terms of torque, work done and angular momentum about a fixed axis of rotation.				
TOPIC: Ch7 Gravitation No. of periods: 12 When: September	*States and explains Kepler's laws of planetary motion. *States and explains Newton's Universal law of gravitation. *Describes and explains acceleration due to gravity and the factors on which it depends upon. *Explains gravitational potential energy in relation to the conservative force of gravitation. *Explains escape speed and derives it from the principle of conservation of energy. *Describes the dynamics of the motion of Earth satellites by applying Kepler's laws.	Assignments. Half Yearly test.	Experiential learning. Inquiry based learning. Co-operative learning.	N.C.E.R.T Textbook PPT Reference books. Physics lab N.C.E.R.T Exemplar	To construct simple pendulum using different objects and to find acceleration due to gravity Subjects integrated: Science ICT, Maths Art craft etc 7. Using a simple pendulum, plot $L-T^2$ graph and use it to find length of a second's pendulum
Topic: CH 8 Mechanical properties of Solids	Students will be able to *Differentiates between rigid, elastic and plastic bodies. *Explains elastic behaviour in solids. *Develops positive scientific attitude, and appreciates the role and impact of Physics and	*Class test	Inquiry based approach Discussion method	● NCE RT ● Reference book ● NCERT Exemplar	● Learning skills/21st century skills

No. of Periods:06 When: October	technology towards the improvement of quality of life and human welfare. *Describes and explains different types of stresses and corresponding strains produced in a body. *Describes elastic moduli of various bodies with different materials, elastic behaviours and shapes. *Explains and derives elastic potential energy stored in a stretched wire.		Experiential learning		
Topic: CH 9 Properties of Bulk Matter. No. of Periods:14 When: November	Students will be able to *Defines fluids and explains pressure experienced in fluids. *Explains the effect of gravity on fluid pressure. *Describes and explains hydraulic machines based on Pascal's law. *Explains the properties, laws and mathematical equations followed during fluid flow *Describes the characteristics of streamlines during a fluid flow and states the equation of continuity. *Explains the properties, laws and mathematical equations followed during fluid flow. *Explains the viscosity of fluids in terms of fluid friction. *Explains surface tension as surface	• Activity • Flow Charts • Diagrams • Worksheet/ assignment • Class test	Approach: • Activity Based • Discussion method • Inquiry based • Experiential learning	NCERT Textbook Reference book PPT	Exploring Bernoulli's Principle with a Simple Paper Experiment. Lab Activities 8.Determination of coefficient of viscosity of glycerine by estimating terminal velocity

Ch:10Thermal Properties of matter No.of Periods:08 When: November	property of liquids only. Defines capillarity and derives an expression for the height of rise of a liquid through a capillary tube due to surface tension. Students will be able to *Explains and differentiates between heat and temperature of a body. *Explains thermal expansion in substances and identifies linear, superficial and cubical expansions. *Defines heat capacity and specific heat capacity of a substance and states its importance in the amount of heat exchanged by a body to change its temperature. *Explains the process of change of state and describe the heat exchanges during the process. *Explains the mechanisms of heat transfers from one body to another through conduction, convection and radiation. *Explains black bodies are good absorbers and good radiators of heat and describes blackbody radiation as a function of the				
--	---	--	--	--	--

	wavelength of radiation emitted at different temperatures of the blackbody using a graphical plot. *States and explains the importance of Wien's displacement law, and Stefan Boltzmann's law and recognises the relation between the rate of heat energy emitted to the temperature of the body and Newton's law of cooling.				
Topic: Ch 11 Thermodynamics Periods:12 When: December	Students will be able to *Defines thermodynamics as a branch of Physics that deals with the concept of heat and conversion of heat into other forms of energy involving macroscopic variables of system. *States and explains Zeroth law of thermodynamics *Describes and explains the three important thermodynamic variables as heat, internal energy and work done. * Explains processes, phenomena and laws with the understanding of the relationship between nature and matter on scientific basis.	Assignment Periodic test	Lecture method Discussion method Inquiry Based	● NCERT Textbook ● Reference book	● Learning skills/21st century skills Lab Activity 9.Verification of Newton's law of cooling

	* Describes and explains specific heat capacity and molar specific heat of matter. * States and explains the second law of thermodynamics.				
Topic: CH 12 Kinetic theory of Gases No. of Periods: 08 When: December	Students will be able to *Describe and explain the behaviour of gases basis the gas laws. *Analyses and interprets data, graphs, and figures, and draws conclusion. * States kinetic theory of gases and uses the theory to explain the pressure exerted by gas molecules and its temperature. * States and explains the law of equipartition of energies for gas molecules with varying degrees of freedom. *Describes specific heat capacities of gases, solids and water and states their values in terms of universal gas constant.	Flow Charts Worksheet/ assignment	Inquiry based learning Discussion method Research based Project	NCERT PPT	● Learning skills/21st century skills
Topic: CH 13 Oscillations No. of Periods: 16 When: January	Student will be able to * Describes periodic and oscillatory motion using common examples and states suitable equations of motion. *States the equations governing the displacement, velocity and acceleration of a body in simple	Assignment Flow chart	● Activity based ● Discussion method ● Inquiry Based	● NCERT ● Reference book	Lab activities Concept of periodic motion and oscillations with the help of simple pendulum. Velocity of pendulum when it passes through mean position and extreme position during oscillations.

	harmonic motion. *Explains the energy and the force law of the body in SHM. * Identifies a few examples of bodies in SHM and derives their equations of motion and time periods. * Identifies a few examples of bodies in SHM and derives their equations of motion and time periods				
Topic: Ch14 Wave Motion Periods:10 When: January	* Describes the concept of wave motion with examples. * Differentiates between certain types of waves. * Writes and explains the displacement equations velocity and for progressive waves. * Describes the reflection of progressive waves from rigid and nonrigid boundaries. * States the principle of superposition of mechanical waves and derives the equations of resultant wave. * Defines and explains standing waves produced due to the reflection of waves by two boundaries. * Demonstrates and explains the formation	Flow Chart Assignment	Lecture method Experiential learning	● NCERT Textbook ● Reference book	● Learning skills/21st century skills Formation of stationary waves by sonometer/Resonance tube. Demonstrating standing waves using slinky

	of beats due to superposition of sound waves of slightly different frequencies.				
--	--	--	--	--	--

Chemistry

Topic No. of periods When	Learning Outcomes	Assessment Tools	Teaching Learning Strategies / Activities	Resources	Interdisciplinary Activities
CHAPTER --1 Some basic concepts of chemistry MONTH: JULY TOPICS: • Classification of matter, - Measurement of physical quantities • Scientific Notations, - Significant figures • Dimensional Analysis • Laws of Chemical Combinations • Daltons Atomic Theory - Atomic Mass/Formula mass/ - Mole Concept • Percentage Composition • Empirical Formula No. of Periods:12	Students will be able to: • use formulas to calculate unknowns for the number of molar mass, entities or formula mass. • the determination of the molar mass of an unknown nonelectrolyte and an unknown electrolyte • Students will describe the fundamental properties of atoms molecules, and the various states of matter stoichiometric calculations of chemical equations to determine the quantities of reactants and products, limiting reagent problems.	NCERT back exercise questions. MCQ Assignment Oral test Solving Numerical on the basis of molarity molality, mole fraction and ppm.	Experiential Learning, Inquiry-Based Learning, Co-operative Learning ACTIVITIES • Procedures to know role of Molarity, Normality in preparation of solutions Lab Activities - Preparation of standard solution of Oxalic Acid • Numerical practice	NCERT Books Black Boards/ Chalk	SUBJECT INTEGRATED (Physics) Physical Quantities and Significant Figures
Chapter -2 Structure Of Atoms MONTH : JULY /AUGUST TOPICS: Discovery of electron/ Proton/ Neutron • Atomic Models •Rutherford Model • Bohr Model • regions of Hydrogen spectrum • De-Broglie equation dual behaviour of matter • Heisenberg's uncertainty principle •	Students will be able to : • differentiate the fundamental properties of atoms, molecules, and the various states of matter with an emphasis on the particulate nature of matter • develop relationship between fundamental particles and their role in various atomic structures • be able to classify concepts of different models including Rutherford Model ,Bohr Model • sketches the probability density curves and boundary surface diagrams of s, p and d orbitals	Worksheets • Numerical practice	Experiential Learning, Inquiry-Based Learning, Co-operative Learning Demonstration for emission spectrum and absorption spectrum followed by classroom discussion	Resources: NCERT Books Audio-visual Aids/Smart Boards/ Chalk Board	SUBJECT INTEGRATED (Physics) emission spectrum and absorption spectrum to find the nature of atom

important features of quantum mechanical model of atom • Significance of quantum numbers • Probability density curves and boundary surface diagrams of s, p and d orbitals • Rules of electron filling in atoms • Writing of the electronic No. of Periods: 14					
CHAPTER --3 Classification of Elements and Periodicity in Properties MONTH : AUGUST TOPICS: The periodic classification of elements • Mendeleev and Modern periodic table • Classification of the elements into different blocks viz. models and get a detailed idea of their general characteristics • Periodic properties • Ionisation enthalpy, Electron gain enthalpy, Electronegativity, ionic and atomic radii and their variations in the given form of the periodic table • Correlation of various elements and their physical properties in the periodic table No. of Periods : 08	By the end of this unit, students should be able to: • Explain how the periodic table is organized and classify elements by family name, group number, and period number. • Explain the pattern of the physical properties of the elements with relationship to period and column. • Be able to predict the trends of atomic radius, ionic radius, and ionization energy. • Recognize the contributions to the organization of the periodic table over time by important scientist.	Group activities and classroom discussion • Reasoning questions NCERT Books	Experiential Learning, Inquiry-Based Learning, Co-operative Learning Flash card Activity	NCERT Books periodic table chart audio-visual Aids/Smart Boards/ Chalk Board	-----

CHAPTER: Chemical Bonding MONTH: SEPTEMBER TOPICS: • Octet rule and its limitations • Covalent bond • Steps to write Lewis structure • Formula for formal charge • Ionic or electrovalent bond • Lattice enthalpy • Bond parameters • Resonating structures • Polarity of bonds • VSEPR theory • Valence bond theory • Types of hybridisation • Molecular orbital theory • Hydrogen bonding and its type No. of Periods : 14	Students will be able to: • compare and sketch Lewis structures of simple molecules. • Differentiate the formation of ionic bond and covalent bond • Explain different bond parameter resonance structures of simple molecular species • Identifies the polarity of covalent bonds and predicts the polar nature of some simple molecules • Be able to explain VSEPR theory and predicts the geometry of simple molecules • explains the valence bond approach for the formation of covalent bonds • predicts the directional properties of various covalent bonds • explains the different types of hybridization involving s, p and d orbitals and sketches shapes of simple covalent molecules • draw the molecular orbital diagram of homonuclear diatomic molecules • identify the concept of hydrogen bonding • Calculate the formal charge of atoms present in the Lewis structures which will give an idea of actual shapes of molecules	NCERT back exercise questions. MCQ Assignment Oral test Worksheets • Group activities and classroom discussion	Experiential Learning, Inquiry-Based Learning, Co-operative Learning	NCERT Books 3 Dimensional models to show geometry of different molecules Smart Boards/ Chalk Board	SUBJECT INTEGRATED (Mathematics) Geometry of different molecules
---	---	---	---	---	--

CHAPTER: 5 Redox Reaction MONTH : SEPTEMBER /OCTOBER TOPICS: • Concept of oxidation, reduction, oxidising agent and reducing agent • Oxidation number: Definition, notations and application • Types of redox reactions • Methods for balancing redox reactions • Electrode potential • Electrochemical series No. of Periods: 06	Students will be able to • Distinguish Electronic concept of oxidation and reduction • Find Basic principles involved in redox reactions . • identify mechanism of electron transfer involved in redox reactions • Calculate of oxidation numbers in terms of electron transfer • Balancing of redox reactions using i) oxidation number method ii) half reaction method	Group activities and classroom discussion • Procedures to balance the redox reactions in both acidic and basic mediums • calculate oxidation number • Reasoning questions	• <i>Group activities to show colour change of an Oxidising agent in acidic and basic medium</i>	Resources: NCERT Books Audio-visual Aids/Smart Boards/ Chalk Board	SUBJECT INTEGRATED (Physics) Electrochemical cell and Cell Potential
CHAPTER: 6 Thermodynamics MONTH : OCTOBER TOPICS: Thermodynamic state • Important thermodynamic terms and their Applications • Measurement of internal Energy and Enthalpy: • Enthalpy change of a reaction • Enthalpies of different types of reactions • Spontaneity • Gibbs energy change and Equilibrium No. of Periods: 6	Students will be able to explain first law of thermodynamics * compute the relationship between internal energy change and enthalpy change. * calculate enthalpy of a reaction using a Hess's law. * solve numerical problems based on enthalpies. * derive the relation of Gibbs Helmholtz equation * illustrate the Gibbs energy criterion for spontaneous process * relate the standard Gibbs energy change with the equilibrium constant and solve the numericals problems	NCERT back exercise questions. MCQ Assignment Oral test	Activities: Computation of numerical problems using log tab	Resources ; Smart board module, Audio Visual Aids, Board, Chalk, Duster Reference book: Together with chemistry	SUBJECT INTEGRATED (physics) First Law of thermodynamics and Law of conservation of energy

CHAPTER 7 EQUILIBRIUM MONTH :OCTOBER /NOVEMBER TOPICS: Equilibrium in physical and chemical processes Law of chemical equilibrium and Equilibrium constant Homogeneous and Heterogeneous Equilibria Applications of equilibrium constants Relationship between K, Q, G Factors affecting Equilibria Ionic Equilibrium in Solution Acids, bases, salts and Ionization Buffer Solutions Solubility Equilibria of sparingly soluble salts No. of Periods: 14	Students will be able to* differentiate between static and dynamic equilibrium * list and explain characteristics of equilibrium state * differentiate between homogerneous and heterogeneous equilibria * State and apply Le Chatelier's principle * define and explain various concepts of acids and bases * define conjugate acid-bases pair * define pH, buffer solutions and common ion effect Students will be able to* explain the Law of mass action * derive the relation between Kc and Kp and carry out calculations involving them. * correlate the degree of dissociation and dissociation	NCERT back exercise questions. MCQ Assignment Oral test NCERT back exercise questions. MCQ Assignment Oral test	Activities: Computation of numerical problems using log table	LAB. ACTIVITY to explain Le-Chatelier's Principle	SUBJECT INTEGRATED (physics) Concept of Physical Equilibrium Relationship between K p and K c
CHAPTER - 8 ORGANIC CHEMISTRY SOME BASIC PRINCIPLES AND TECHNIQUES MONTH DECEMBER * structural representation of organic compound * classification of organic compound * isomerism and nomenclature of organic compound * fundamental concepts in organic reaction mechanism * Electron displacement effects in covalent compounds * methods of purification of organic compounds (Project based) No. of Periods: 14	* identify hybridization of each carbon in an organic compound * identify sigma and pi bond in a given molecule * represent structural formula in various ways like bond line structure Students will be able to* describe free radicle mechanism * carbocation mechanism * draw and differentiate between various conformation of ethane	NCERT back exercise questions. MCQ Assignment Oral test NCERT back exercise questions. MCQ Assignment Oral test	Nomenclature and bond line structures as fun worksheet a* Research and write an article on any one method of purification of organic compound or suitable quantitative analysis	LAB ACTIVITY Detection of elements in given organic compounds.	SUBJECT INTEGRATED (biochemistry) USE of halogenated compounds and alcohol

CHAPTER 9 :Hydrocarbon MONTH: DECEMBER / JANUARY TOPICS • Hydrocarbons nomenclature and conformation • Preparation and chemical properties of alkanes • Preparation and properties of alkenes • Preparation and properties of alkynes • Aromatic compound - benzene preparation and chemical reactions No. of Periods: 12	Students will be able to • name hydrocarbons according to IUPAC name • identify and write the structures of isomers of alkanes, alkenes, alkynes and arenes • understand the preparation of alkanes, alkenes, alkynes and arenes. • differentiate between alkane, alkene and alkyne on the basis of physical and chemical properties. • compare reactivity of alkane alkene & alkyne explain geometrical isomerism in in alkenes (cis & trans) * predict the product of addition reaction (markownikav's rule and kharash reaction * explain the structure of benzene, explain aromaticity (Huckel's rule)	NCERT back exercise questions. MCQ Assignment Oral test	physical Property(Melting Point) LAB ACTIVITY Determination of Melting point of given Organic compound .	Resources ; Smart board module, Audio Visual Aids, Board, Chalk, Duster Reference book: Together with chemistry	SUBJECT INTEGRATED (physics) Determination of Melting point.
--	---	--	--	--	---

हिंदी

विषय/कालांश संख्या	अधिगम प्रतिफल	मूल्यांकन उपकरण	शिक्षण विधि/गतिविधि	संसाधन	अंतः विषय गतिविधि
पाठ -1 नमक का दारोगा (गद्य) [प्रेमचंद] कालांश -6 अप्रैल	- विद्यार्थी इस कहानी में ईमानदारी, कर्तव्यनिष्ठा और नैतिकता के महत्त्व को समझेंगे। - विद्यार्थी अंग्रेजी शासनकाल की सामाजिक, आर्थिक और प्रशासनिक व्यवस्था का बोध होगा। - विद्यार्थी प्रेमचंद की वर्णनात्मक शैली, व्यंग्य और संवादों के माध्यम से कहानी की प्रभावशीलता को समझ सकेंगे।	- कक्षा प्रश्नोत्तरी - प्रदर्शन मूल्यांकन: नाटक मंचन और चर्चा में छात्रों की भागीदारी का निरक्षण। - गृहकार्य	- व्याख्यान विधि - आगमन-निगमन विधि सतत विकास लक्ष्य -3 उत्तम स्वास्थ्य और आरोग्य 17 लक्ष्य हेतु भागीदारी गतिविधि: कहानी का नाट्य रूपांतरण- "नमक का दारोगा" पर आधारित नाटक का मंचन।	श्यामपट्ट आरोह भाग-1 (पाठ्यपुस्तक)	इतिहास: ब्रिटिश शासनकाल में नमक कर और सामाजिक अन्याय। नागरिक शास्त्र: कानून, न्याय व्यवस्था और प्रशासनिक नैतिकता
पाठ-2 कबीर के पद्य (कबीरदास) कालांश -3 अप्रैल	- विद्यार्थी कबीर के पदों में निहित आध्यात्मिक, सामाजिक और जीवन के गहन सत्य को समझेंगे। - विद्यार्थी को भक्तिकाल की परंपरा, कबीर की विचारधारा, और उनके भक्ति-भाव का ज्ञान होगा। - विद्यार्थी कबीर के पदों की सरल और प्रभावशाली भाषा को समझ सकेंगे।	- चर्चा और विचार साझा करना। - कबीर के पदों की व्याख्या और उनके विचारों पर आधारित प्रश्न।	- परिचर्चा विधि - व्याख्यान विधि - गतिविधि परिचय कार्य	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	धर्म और समाजशास्त्र: भक्ति आंदोलन और समाज सुधार के लिए कबीर के विचार। इतिहास: कबीर का जीवन और उनके समय का सामाजिक परिदृश्य।
पाठ -3 मियां नसीरुद्दीन (गद्य) [कृष्णा सोबती] कालांश -6 अप्रैल	विद्यार्थी लेखिका की व्यंग्यात्मक शैली, भाषा और पात्रों के माध्यम से उनकी	- कक्षा प्रश्नोत्तरी - अनुच्छेद लेखन - मियां नसीरुद्दीन के हास्य और व्यंग्य की	चर्चा-परिचर्चा, पठन विधा, प्रश्नोत्तर विधि सतत विकास लक्ष्य -16 शांति, न्याय और	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	इतिहास और समाजशास्त्र: समाज में हास्य और

	अभिव्यक्ति की समझ सकेंगे। विद्यार्थी मियां नसीरुद्दीन के हास्य और व्यंग्य के माध्यम से सामाजिक और राजनीतिक मुद्दों को समझ सकेंगे।	विशेषताओं पर आधारित प्रश्न।	सशक्त संस्थाएँ		व्यंग्य की भूमिका और उसका ऐतिहासिक महत्व राजनीति विज्ञान: व्यंग्य का राजनीति और सामाजिक सुधार में योगदान।
पाठ-4 मीरा के पद्य (मीराबाई) कालांश -6 मई	- विद्यार्थी मीरा के पदों में निहित भगवान श्रीकृष्ण के प्रति भक्ति, प्रेम, और समर्पण को समझ सकेंगे। - विद्यार्थी मीरा की सरल, प्रभावशाली और भावनात्मक भाषा को समझ सकेंगे।	- कविता गायन - प्रश्नोत्तरी - मीरा के पदों और उनके भावार्थ पर आधारित प्रश्न।	पठन विधि, व्याख्यान विधि, प्रश्नोत्तर विधि सतत विकास लक्ष्य-10 असमानताओं में कमी गतिविधि: श्री कृष्णा के जीवन से संबंधित कोई एक प्रसंग की प्रस्तुति।	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	धर्म और समाजशास्त्र: भक्ति आंदोलन और समाज में उसका प्रभाव। इतिहास: मीराबाई का जीवन और उनके समय का सामाजिक परिदृश्य।
पाठ-6 अपू के साथ ढाई साल (सत्यजित राय) कालांश -6 मई	- विद्यार्थी को साहित्य और सिनेमा के आपसी संबंध और कला के दोनों माध्यमों की ताकत का ज्ञान होगा। - विद्यार्थी लेखक की वर्णनात्मक शैली, स्वर, और आत्मकथात्मक विवरणात्मक लेखन को समझ सकेंगे।	- चर्चा और विचार साझा करना। - पाठ से संबंधित प्रश्नोत्तर। - टी-चार्ट	पठन विधि, व्याख्यान विधि, आगमन-निगमन विधि सतत विकास लक्ष्य- 4 गुणवत्तापूर्ण शिक्षा सतत विकास लक्ष्य-17 लक्ष्य हेतु भागीदारी गतिविधि: 'पथेर पांचाली' की फ़िल्म समीक्षा कीजिए।	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	साहित्य और सिनेमा: साहित्यिक कृतियों का सिनेमा में रूपांतरण और उनकी ताकत।
पाठ-7 घर की याद (भवानी प्रसाद मिश्र) कालांश -6 जुलाई	- विद्यार्थी कविता में कवि की भावनाओं, प्रवासी व्यक्ति की पीड़ा और घर की ओर आकर्षण को समझेंगे। - विद्यार्थी कविता की प्रतीकात्मकता, भावनात्मक गहराई को समझ सकेंगे।	- समूह चर्चा - कविता का भावार्थ अपने शब्दों में लिखना। - गृहकार्य	पठन विधि, व्याख्यानात्मक विधि सतत विकास लक्ष्य- 10 असमानताओं में कमी सतत विकास लक्ष्य-16 शांति, न्याय और सशक्त संस्थाएँ	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	भूगोल: प्रवासी जीवन और उनके संघर्ष। सामाजिक विज्ञान: प्रवासियों के जीवन, उनकी समस्याओं, और उनके परिवार के प्रति भावनात्मक संबंध।
पाठ-8 विदाई संभाषण (बालमुकुंद गुप्त) कालांश -6 जुलाई	विद्यार्थी पाठ में व्यक्त विचारों और लेखक के आदर्शों को समझ सकेंगे।	- कक्षा चर्चा - भाषण लेखन - प्रश्नोत्तरी	व्याख्यान विधि पठन विधि प्रश्नोत्तर विधि	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	इतिहास: ब्रिटिश के समयकाल की ऐतिहासिक स्थिति, सामाजिक परिदर्शन

पाठ- भारतीय गायिकाओं में बेजोड़: लता मंगेशकर (वितान)	विद्यार्थी संभाषण की भाषणत्मक शैली, भावपूर्ण अभिव्यक्ति और गहन विचारों को समझ सकेंगे।				
पाठ-9 चंपा काले काले अक्षर नहीं चिन्हाती (पद्य) [त्रिलोचन] अगस्त कालांश -6 अगस्त	- विद्यार्थी शिक्षा साक्षरता और समाज में स्त्रियों की भूमिका के प्रति लेखक के दृष्टिकोण को समझेंगे। - विद्यार्थी कविता की प्रतीकात्मकता, भावात्मक गहराई और सरल भाषा का विश्लेषण कर पाएंगे।	- कविता पाठ, चित्र प्रदर्शन, समूह चर्चा - प्रश्नोत्तरी "शिक्षा का समाज में प्रभाव" विषय पर रचनात्मक लेख।	- व्याख्यान विधि - आगमन-निगमन विधि - पठन विधि सतत विकास लक्ष्य -9 उद्योग, नवाचार और बुनियादी ढांचे का विकास 10 असमानताओं में कमी	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	सामाजिक विज्ञान: शिक्षा और साक्षरता के सामाजिक प्रभावों का अध्ययन। इतिहास: भारतीय समाज में त्रियों की शिक्षा का इतिहास।
पाठ-10 गलता लोहा (शेखर जोशी) कालांश-6 अगस्त पाठ- राजस्थान की रजत बूँदें (वितान)	- विद्यार्थी पाठ में आए औद्योगिक मजदूरों की समस्या, उनके संघर्षों और मानवीय मूल्यों को समझेंगे। - विद्यार्थी लेखक की लेखन शैली, उनकी यथार्थपरकता और संवादों के माध्यम से विचारों की अभिव्यक्ति को समझ सकेंगे।	- CRAB कार्यपत्रक - प्रश्नोत्तरी - समूह चर्चा	- व्याख्यान विधि - पठन विधि - आगमन-निगमन विधि सतत विकास लक्ष्य 4. गुणवत्तापूर्ण शिक्षा, 8 उत्कृष्ट कार्य और आर्थिक वृद्धि, 16. शांति, न्याय और मजबूत संस्थाओं।	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	अर्थशास्त्र: औद्योगिक मजदूरों की आर्थिक स्थिति और उनकी समस्याओं का अध्ययन।
पाठ-11 गजल (दुष्यंत कुमार) कालांश -6 सितंबर	- विद्यार्थी को गजल की परंपरा, इसकी संरचना और शिल्प का ज्ञान होगा। - विद्यार्थी में उर्दू साहित्य की समृद्धि और उसके साहित्यिक योगदान के प्रति जागरूकता विकसित होगी।	- कक्षा चर्चा - प्रश्नोत्तरी - गजल का भावार्थ लिखना।	व्याख्यान विधि, पठन-पाठन विधि, व्याख्यानात्मक विधि, आगमन-निगमन विधि। नवीन शब्दावली चक्र सतत विकास लक्ष्य -5 लैंगिक समानता से	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	संगीत और साहित्य: गजल और संगीत का परस्पर संबंध। इतिहास: मीर तकी मीर का जीवन और उनके समय का सामाजिक और सांस्कृतिक परिदृश्य।
पाठ-12 जामुन का पेड़ (कृष्णचंद्र) कालांश -6 अक्टूबर	विद्यार्थी पाठ में प्रस्तुत प्रशासनिक तंत्र की विसंगतियों और	- कक्षा चर्चा - कार्यपत्रक - विचार विमर्श	पठन विधि आगमन-निगमन विधि व्याख्यान विधि	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	नागरिक शास्त्र: सरकारी तंत्र की कार्यप्रणाली और

	समस्याओं को समझ सकेंगे। • विद्यार्थी कृष्ण चंदर की व्यंग्यात्मक शैली और हास्य-प्रेरित भाषा को समझ सकेंगे।	गतिविधि: नाटक मंचन	सतत विकास लक्ष्य -3 उत्तम स्वास्थ्य और आरोग्य		नागरिकों की समस्याओं का अध्ययन।
पाठ-13 हे भूख ! मत मचल हे मेरे जूही के फूल जैसे ईश्वर (अक्क महादेवी) कालांश-6 अक्टूबर	• विद्यार्थी को भक्तिकाल, विशेषकर वीरशैव आंदोलन और अक्क महादेवी के योगदान का ज्ञान होगा। • विद्यार्थी कविता की प्रतीकात्मकता, भावात्मक गहराई	• समूह चर्चा • मौखिक प्रश्नावली • कविता के भावार्थ, प्रतीकों और उनके सामाजिक और सरल भाषा का विश्लेषण कर पाएंगे।	• पद्य गायन विधि • संवादात्मक विधि • व्याख्यान विधि गतिविधि: संदर्भ पर आधारित प्रश्न।	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	धर्म और समाजशास्त्र: भक्ति आंदोलन और समाज में इसके प्रभाव। इतिहास: वीर शैव आन्दोलन और अक्क महादेवी का योगदान।
पाठ-14 रजनी (मन्नू भंडारी) कालांश -6 अक्टूबर	• विद्यार्थी पाठ में व्यक्त मानवीय करुणा, संवेदनशीलता और सामाजिक कुरीतियों को समझेंगे। • विद्यार्थी मन्नू भंडारी की साहित्यिक शैली, उनकी गहन भावनाओं और चित्रात्मक अभिव्यक्ति को समझ सकेंगे।	• अभिनय क्षमता द्वारा • कक्षा चर्चा • चर्चा-परिचर्चा	• नाट्य मंचन • संवादात्मक विधि • पठन विधि	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	सामाजिक विज्ञान: समाज के वंचित वर्गों और उनकी समस्याओं का अध्ययन।
पाठ-15 सबसे खतरनाक (पाश) कालांश -6 नवंबर	• विद्यार्थी कविता में निहित सामाजिक, राजनीतिक और व्यक्तिगत चेतना को समझ सकेंगे। • विद्यार्थी कविता की प्रतीकात्मकता, तीव्र भावनात्मक अपील, और प्रभावी अभिव्यक्ति को समझ सकेंगे।	• कक्षा चर्चा • पाठ संबंधी अभ्यास • मुख्य विचारों, प्रतीकों और उनके सामाजिक संदर्भ पर आधारित प्रश्न।	• पठन विधि • आगमन – निगमन विधि सतत विकास लक्ष्य- 8 उत्कृष्ट कार्य और आर्थिक विकास	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	राजनितिक और समाजशास्त्र: समाज में अन्याय और निष्क्रियता के प्रभाव। इतिहास: सामाजिक आन्दोलन और उनके संघर्ष
पाठ-17 भारत माता (जवाहरलाल नेहरू) कालांश -6 नवंबर	• विद्यार्थी लेखक की तर्कपूर्ण और भावनात्मक भाषा को समझ सकेंगे।	• समूह चर्चा • प्रश्नोत्तरी	• पठन विधि • आगमन-निगमन विधि • व्याख्यान विधि	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	इतिहास: भारतीय स्वतंत्रता संग्राम और देशभक्ति के संदर्भ में

पाठ- आलो आँधारि (वितान)	• विद्यार्थी पाठ में लेखक द्वारा प्रस्तुत देशभक्ति, मातृभूमि के प्रति कर्तव्य और राष्ट्रीयता की भावना को समझ सकेंगे				
पाठ-18 आओ मिलकर बचाएं (पद्य) [निर्मला पुतुल] कालांश -6 दिसंबर	• विद्यार्थी कविता में व्यक्त पर्यावरण संरक्षण, प्राकृतिक संसाधनों के महत्व और समाज के प्रति जिम्मेदारी को समझ सकेंगे। • कविता की प्रतीकात्मकता, सरलता और गहन अभिव्यक्ति समझना।	• कक्षा प्रश्नोत्तरी • समूह चर्चा • “पर्यावरण को बचने के लिए हमारा योगदान” पर रचनात्मक लेख लिखवाना।	• आगमन-निगमन विधि • व्याख्यान विधि • पठन विधि गतिविधि: पोस्टर निर्माण पर्यावरण संरक्षण पर आधारित संदेशों को चित्र या पोस्टर के माध्यम में प्रस्तुत करना। सतत विकास लक्ष्य- 17 लक्ष्य हेतु भागीदारी	श्यामपट्ट आरोह भाग-1 (पाठ्य पुस्तक)	विज्ञान और पर्यावरण अध्ययन: पर्यावरणीय संकट और उनके समाधान समाजशास्त्र: सामूहिक जिम्मेदारी और सामाजिक चेतना।
	जनवरी/फरवरी पुनरावृत्ति एवं द्वितीय सत्र वार्षिक परीक्षा				

Computer Science (

Topic No. of periods when	Learning Outcome	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Inter- Disciplinary
Topic: Computer System and Organization Sub-Topic: Introduction to Computer System, Input Output Devices No. Of Periods : When: July	Students will be able to explain different parts of the computer System	Class Quiz	Discussion Method	• NCERT Text Books • Video	
Topic: Computer System and Organization Sub-Topic: Type of Software No. Of Periods : When: July	Students will be able to classify different types of software	Class Quiz Class Test	Lecture Method Discussion	NCERT Book	
Topic: Computer System and Organization Sub-Topic: Operating System No. Of Periods : When: July	Students will be able to classify the role of different types of operating system	Quiz	Discussion Lecture method	NCERT Book	
Topic: Computer System and Organization Sub-Topic: Boolean Logic No. Of Periods : When: July	Use of Boolean logic in computer Hardware	Class Test	Lecture Method Discussion	NCERT Book	Different Logic using physical circuits in Physics Lab
Topic: Computer	Use of Number System in	Class Test	Lecture method	NCERT Book CBSE Book	

System and Organization Sub-Topic: Number System No. Of Periods : When: July	Computer organization		Discussion		
Topic: Computer System and Organization Sub-Topic: Encoding Schemes No. Of Periods : When: July	Convert any data into number using different encoding schemes	Class Quiz	Lecture Method and discussion	CBSE Book	
Topic: Computational thinking and Programming Sub-Topic: Introduction to Problem solving No. Of Periods : When: August	• Learn to analyze problem • Develop an algorithm • Presentation of algorithm using flowchart and pseudo-code • Decomposition	Class Test	Lecture method Discussion	• CBSE Book • PPT • Demonstration	
Topic: Computational thinking and Programming Sub-Topic: Introduction to Python Programming No. Of Periods : When: August	• Students will ne able to recongnize the basics of python, features, characteristics, variables, Data-type, Operators and expressions	Class Test Class Quiz	Lecture Method Discussion	• CBSE Book • PPT • Demonstration	Basic Mathematical formula conversion in Python programming
Topic: Computational thinking and Programming Sub-Topic: Errors No. Of Periods : When: September	• Students will be able to classify different types of errors and how to debug that errors	Class Quiz	Lecture Method Discussion	• CBSE Book • Demonstration	
Topic: Computational thinking and Programming Sub-Topic:	• Students will be able to define the use of conditional statement in	Class Test	Lecture method Discussion	• CBSE Book • PPT • Demonstration	Basic Mathematical problems using conditional

Conditional Statements No. Of Periods : When: September	Python Programs				statements
Topic: Computational thinking and Programming Sub-Topic: Iterative Statements No. Of Periods : When: October	Students will be able to define the concept of loops in Python Programs	Class Test	Lecture method Discussion	- CBSE Book - PPT - Demonstration	Basic Mathematical problems using iterative statements
Topic: Computational thinking and Programming Sub-Topic: String No. Of Periods : When: October	Students will be able to use the use of string in Python	Class Test	Lecture method Discussion	- CBSE Book - PPT - Demonstration	
Topic: Computational thinking and Programming Sub-Topic: List No. Of Periods : When: October	Students will be able to define the use of List in Python	Class Test	Lecture method Discussion	- CBSE Book - PPT - Demonstration	Basic Mathematical problems using list statements
Topic: Computational thinking and Programming Sub-Topic: List No. Of Periods : When: November	Students will be able to define the use of Tuple in Python	Class Test	Lecture method Discussion	- CBSE Book - PPT - Demonstration	Basic Mathematical problems using list statements
Topic: Computational thinking and Programming Sub-Topic: Dictionary No. Of Periods :	Students will be able to define the use of Dictionary in Python	Class Test	Lecture method Discussion	- CBSE Book - PPT - Demonstration	Basic Mathematical problems using Dictionary statements

Informatics Practices

Topic No. of periods when	Learning Outcome	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Inter- Disciplinary
Topic: Computer System and Organization Sub-Topic: Introduction to Computer System, Input Output Devices No. Of Periods : When: July	Students will be able to define different parts of the computer System	Class Quiz	Discussion Method	- NCERT Text Books - Video	
Topic: Computer System and Organization Sub-Topic: Type of Software No. Of Periods : When: July	Students will be able to classify different types of software	Class Quiz Class Test	Lecture Method Discussion	NCERT Book	
Topic: Introduction to Python Sub-Topic: Basics of Python Programming No. Of Periods : When: July	Students will be able to appreciate basics of Python programming concepts like identifier, keywords, comment, variable and comments	Quiz	Discussion Lecture method	NCERT Book	
Topic: Introduction to Python Sub-Topic: Basics of Python Programming No. Of Periods : When: July	Students will be able to recognize operators and expression and input output statements and simple programs using them	Class Test	Lecture Method Discussion	NCERT Book	Different Logic using physical circuits in Physics Lab
Topic:	Students will	Class Test	Lecture	CBSE Book	

Introduction to Python Programming Sub-Topic: Control Statements No. Of Periods : When: August	learn appreciate the use of selection statements and looping statement	Class Quiz	method Discussion	• PPT • Demonstration	
Topic: Introduction to Python Programming Sub-Topic: Python List No. Of Periods : When: August	• Students will be able to classify basics of python list. functions and methods available to list	Class Test Class Quiz	Lecture Method Discussion	• CBSE Book • PPT • Demonstration	Use of Python List in mathematics
Topic: Introduction to Python Programming Sub-Topic: Python List No. Of Periods : When: September	• Python List Continued	Class Quiz	Lecture Method Discussion	• CBSE Book • Demonstration	
Topic: Introduction to Python Programming Sub-Topic: Python Dictionary No. Of Periods : When: October	• Students will ne able to classify basics of python dictionary, functions and methods available to dictionary	Class Test	Lecture method Discussion	• CBSE Book • PPT • Demonstration	
Topic: Database concepts and the Structured Query Language Sub-Topic: Database concepts using MySQL No. Of Periods : When: November	• Students will be able to appreciate the the concept of Database	Class Test	Lecture method Discussion	• CBSE Book • PPT • Demonstration	
Topic: Introduction to	• Students will be able to	Class Test Class Quiz	Lecture method	• CBSE Book • PPT	

the Emerging Trends Sub-Topic: No. Of Periods : When: December	categorize latest trends in computer Science		Discussion	• Demonstration	
Topic: Revision Sub-Topic: List No. Of Periods : When: January	• Revision work	Class Test			
Topic: Revision Sub-Topic: List No. Of Periods : When: February	• Revision work	Class Test			

When: November					
Topic: Computational thinking and Programming Sub-Topic: Python Modules Periods : When: December	Students will be able to appreciate the use of python modules	Class Test	Lecture method Discussion	CBSE Book	Basic Mathematical problems using Python modules
Topic: Society, Law and ethics Sub-Topic: Python Modules Periods : When: December - January	Students will be able to define different types of crime, law and ethics	Class Test	Lecture method Discussion	NCERT Book	
Topic: Society, Law and ethics Sub-Topic: Python Modules Periods : When: January - February	Revision	Class Test			

Physical Education

Topic/Month	Learning Outcomes	Assessment Tools	Teaching Learning Strategies / Activities	Resources	Interdisciplinary Activities
July Changing trends and Careers in Physical Education • Concept< Aims and objectives of physical education • Development of physical education in India – Post Independence • Changing trends in sports playing surface, wearable gear and sports equipment, technological advancements • Career options in physical education • Khelo-india programme and fit-India programme	After completing the unit, the students will be able to: ● Recognize the concept, aim, and objectives of physical education. ● Identify the post-independence development in physical education. ● Categorize changing trends in sports-playing surface, wearable gear, sports equipment, technological ● Explore different career options in the field of physical education. ● Make out the development of khelo india and Fit India programme.	Class discussion, Assignment		BIG- Thing Publication	
Olympism value Education • Olympism	After completing the unit, the students will be able to:	Oral discussion	Research to find out more about Olympic Games Boycotts during 1920,1936 ,1948,1972,1976 & 1980	BIG- Thing Publication	

– Concept and Olympics values (Excellence, friendship and respect) • Olympic Value Education – Joy of effort, fair play, Respect for others, pursuit of Excellence , Balance Among Body, Will and Mind • Ancient and Modern Olympics • Olympics – Symbols, Motto, Flag, Oath, and Anthem • Olympic Movement Structure – IOC, NOC, IFS Other member.	• Incorporate values of Olympism in your life. • Differentiate between Modern and Ancient Olympic Games, Paralympics, and Special Olympic games • Identity the Olympic Symbol and Ideals • Describe the structure of the Olympic Movement structure.				
August Yoga and Importance of Yoga • Meaning and importance of Yoga • Introduction to Astanga Yoga • Yogic Kriyas(Shat Karma) • Pranayama and its types.	After completing the unit, the students will be able to: • Recognize the concept of yoga and be aware of the importance of it • Identify the element of yoga • Identify the asanas, Pranayama's , meditation	Class discussion, Assignment		BIG- Thing Publication	

- Active lifestyle and stress management through Yoga Physical education and sports for CWSN (Children with special need – Divyang) - Concept of Disability and Disorder - Types of Disability, its causes and nature (intellectual disability). - Disability Etiquette - Aim and objectives of Adaptive physical education - Role of various professionals for children with special needs (Counselor, Occupational therapist, physiotherapist, physical education teacher, speech therapist and special educator)	and yogic kriyas - Classify various yogic activities for the enhancement of concentration - Know about relaxation techniques for improving concentration. After completing the unit, the students will be able to: - Identify the concept of Disability and Disorder. - Outline types of Disability and describe their causes and nature. - Adhere to and respect children with special needs by following etiquettes. - Identify possibilities and scope in adaptive physical education - Relate various types of professional support for children with special needs along with their roles and responsibilities.	Class Discussion Oral test	Working in groups, investigate the history of the Indian Paralympics and special Olympics teams of last Olympics. Who have been most successful athletes.	BIG- Thing Publication	
---	---	---------------------------------------	--	--------------------------------------	--

September Physical Fitness, Wellness, and Lifestyle • Meaning and importance of wellness, health, and physical fitness. • Components/Dimensions of wellness, Health, and Physical fitness • Traditional sports and regional games for promoting wellness • Leadership through physical Activity and sports • Introduction to First Aid-PRICE October Test, Measure and Management • Define Test, Measurement and Evaluation. • Importance of Test, Measurement and	After completing the unit, the students will be able to: • Explain wellness and its importance and define the components of wellness. • Classify physical fitness and recognize its importance in life • Distinguish between skill-related and health-related components of physical fitness. • Illustrate traditional sports and regional games to promote wellness. • Relate leadership through physical activity and sports • Illustrate the different steps used in First Aid-PRICE. After completing the unit, the students will be able to: • Define the terms test, measurement, and evaluation. • Differentiate norms and criterion referenced standards. • Differentiate	Class test By giving calculation to find out BMI & oral test	Name a sports person who proved to be a great leader in his/her sport. Also state the leadership qualities due to which he/she gains the status of great leader. Each student of the class perform Push-ups and sit ups to measure their muscular endurance.	BIG- Thing Publication BIG- Thing Publication	Activity: Fitness data analysis and performance management Related to mathematics: Data collection, statistical analysis.
---	--	--	--	---	--

evaluation sports. ● Calculation of BMI, waist – Hip ratio, Skin fold measurement ● Somato Types (Endomorphy and Ectomorphy) ● Measurement of health related fitness.	formative and summative evaluation, ● Discuss the importance of measurement and evaluation processes, ● Understand BMI: A popular clinical standard and its computation ● Differentiate between Endomorphy and Ectomorphy and describe the procedure of Anthropometric measurement				
November Fundamentals of Anatomy, Physiology in sports ● Definition and importance of Anatomy and physiology in Exercise and Sports. ● Functions of Skeletal system, Classification of Bones, and Types of joints. ● Properties and Functions of Muscles. ● Structure and functions	After completing the unit, the students will be able to: ● Identify the importance of anatomy and physiology ● Recognize the functions of the skeleton. ● Understand the functions of bones and identify various types of joints. ● Figure out the properties and functions of muscles and understand how they work. ● Understand the anatomy of the respiratory	Class test & identification of pictures	Select a player of your favourite sport who got injured while playing the sport. Study about his/her injury type and how it was treated. Is it possible to prevent such type of injury while playing the sport?	BIG- Thing Publication	Biology: Students will analyze how muscular and cardiovascular system affecting an athlete's performance.

of circulatory system and hearts. • Structure and functions of respiratory system.	system and describe it's working. • Identify and analyses the layout and functions of circulatory system.				
December Fundamentals of Kinesiology and Biomechanics in sports • Definition and Importance of Kinsiology and Biomechanics in sports. • Principles of Biomechanics • Kinetics and Kinematics in sports • Types of Body Movements – Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination and pronation • Axis and planes – concept and its application in body movements	After completing the unit, the students will be able to: • Understand Kinesiology and Biomechanics with their application in sports. • Explain biomechanical principles and their utilization in sports and physical education. • Illustrate fundamental body movements and their basic patterns. • Learn about the Axis and planes and their application with body movements.	Oral Class test Assignment		BIG- Thing Publication	Students will analyze the biomechanics and kinesiology of a basketball sot by integrating physics and anatomy.

Psychology and sports • Definition and importance of psychology in physical education and sports • Development characteristics at different stages of development • Adolescent problems and their management • Team cohesion and sports • Introduction to psychology attributes attention, resilience, Mental toughness	After completing the unit, the students will be able to: • Identify the role of psychology in physical education and sports • Differentiate characteristics of growth and development at different stages. • Explain the issues related to adolescent behaviour and team cohesion in sports • Correlate the psychological concepts with the sports and athlete specific situations.	Questions through case studies	Identify the stressful events, which you have experienced in the past year, Find out how much ability, skill and family or friends support you have in order to deal with those events.	BIG- Thing Publication	
January Training and Doping in sports • Concept and principles of sports training • Training load: Over load, adaptation and recovery • Warming-up and limbering	After completing the unit, the students will be able to: • Understand the concept and principles of sports training • Summarise	Class test project		BIG- Thing Publication	

down – types, methods and importance • Concept of skill, technique, tactics and strategies • Concept of doping and its disadvantages.	training load and its concept • Understand the concept of warming up and limbering down in sports training and their types, methods and importance. • Acquire the ability to differentiate between the skills, technique, tactics and strategies in sports training • Interpret concept of doping.				
---	---	--	--	--	--

Hindustani Music Vocal

Topic/Month	Learning Outcomes	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Interdisciplinary Activities
APRIL THEORY - Brief study of the following- Naad, Shruti, Swar, Saptak, Thaata, Jati - Description of Teentaal along with taal notation with Thah, Dugun, Tigan and chaugun. APRIL PRACTICAL - Practice of a few basic Alankars - Teentaal with hand gestures. - One Devotional song	Students will be able to : - perform the compositions they have learnt and will be able to understand the detailed description of the terms, both theoretically and with their practical application - Learn the traditional structure of the Teental with the necessary components and various layas in proper divisions.	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project containing the theoretical structures and topics from the syllabus.	- Recitation of teentaal on hands will be taught to the students including the elements such as dugun, tigan etc. - Practical analysis and rendition of Teentaal on hand in various tempos.	Text Books and Musical instruments.	The devotional song that the students will learn is going to be a lens capturing the social condition of the time it is set in.
MAY THEORY - Life sketch and contribution of Tansen - Brief study of Raag, Khyal, laya, taal - Notation and description of Raga Bhimpalasi.	Students will be able to: perform the compositions they have learnt and will be able to learn a detailed description of Raag Bhimpalasi, both theoretically and practically.	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project	Recitation of the drut composition in raag Bhimpalasi set in teental will be taught to the students including the elements such as aaroh, avroh, aalap, taan etc.	Text Books and Musical instruments.	History : origin of raag and life sketch Physical Education: (Practicing breathing

MAY PRACTICAL ● One Drut Khyal with simple elaboration and a few taanas in raga Bhimpalasi.	● Learn the traditional structure of the raag with the necessary components and compositions, and proper divisions used in Teentaal.	containing the theoretical structures and topics from the syllabus.	● Practical analysis and rendition of Teental on hand in various tempos.		control, techniques and meditation)
JULY THEORY ● Brief study of Margi and Desi sangeet. ● knowledge of the structure of Tanpura. ● Notation and description of Raga Bihag. JULY PRACTICAL ● Tuning of Tanpura. ● One drut Khyal with simple elaboration and a few taans in Raga Bihag	Students will be able to : ● perform the compositions they have learnt and will be able to learn a detailed description of Raag Bihag and learn about the tanpura. ● Learn the traditional structure of the raag with the necessary components and compositions, and proper divisions used in Teentaal.	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project containing the theoretical structures and topics from the syllabus.	● Recitation of the drut composition in raag Bihag set in teental will be taught to the students including the elements such as aaroh, avroh, aalap, taan etc.	Text Books and Musical instruments.	● History: origin of raag ● Science: Exploring sound waves and vibration of rhythm.

AUGUST THEORY ● Life sketch and contribution of V.N. Bhatkhande ● Notation and description of Ektaal in different tempos. AUGUST PRACTICAL ● Ektaal with hand gestures ● One Vilambit Khyal with simple elaboration and a few taanas in raga Bhimpalasi.	Students will be able to : ● perform the compositions they have learnt and will be able to learn a detailed description of Raag Bhimpalasi and a Vilambit Khyal. ● Learn the traditional structure of the raag with the necessary components and compositions, and proper divisions used in Vilambit Ektaal.	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project containing the theoretical structures and topics from the syllabus.	● Recitation of the Vilambit composition in raag Bhimpalasi set in Ektaal will be taught to the students including the elements such as aaroh, avroh, aalap, taan etc.	Text Books and Musical instruments.	● History: Life sketch of Musicians. ● Maths: Pattern , sequence and timings.
SEPTEMBER THEORY ● Critical study of raag bhairavi with notation ● Life sketch and contribution of V.D. Paluskar SEPTEMBER PRACTICAL ● One drut Khyal with simple elaboration and a few taans in	Students will be able to: ● perform the compositions they have learnt and will be able to learn a detailed description of Raag Bhairavi, both theoretically and practically. ● Learn the traditional structure of the raag with the necessary components and compositions, and proper divisions used in	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project containing the theoretical structures and topics from the syllabus.	● Recitation of the drut composition in raag Bhairavi set in teental will be taught to the students including the elements such as aaroh, avroh, aalap, taan etc.	Text Books and Musical instruments.	● History: origin of raag and life sketch of musicians. ● Physical Education: (Practicing breathing control, techniques and meditation)

Raga Bhairavi ● Recognition of ragas	Teentaal. ● Recognize the raags by hearing them and identifying the position of notes being used.				
OCTOBER THEORY ● Brief study of Dhrupad. ● Notation and description of chautaal in different tempos. OCTOBER PRACTICAL ● Recitation of Dhrupad in Raga Bhimpalasi ● Chautal with hand gestures.	Students will be able to: ● perform the compositions they have learnt and will be able to learn the detailed practical and theoretical description of Raag bhimpalasi and a Dhrupad in Chautal. ● Learn the traditional structure of the raag with the necessary components and composition, and proper divisions used in Chautaal. ● Recite Chautaal Thah, Dugun and Chaugun	Students will be asked to recite the composition and the taals they've learnt and will be asked to work on a project containing the theoretical structures and topics from the syllabus.	● Recitation of the Dhrupad composition in raag Bhimpalasi set in Chautaal will be taught to the students including the elements such as layakari, aaroh, avroh, aalap, etc. ● Practical analysis and rendition of Ektaal on hand in various tempos.	Text Books and Musical instruments.	● Mathematics Taal cycle in music works in favour of practical understanding of basic mathematical principles wherein, students recognise the flow of beats within the framework of timecycle.

NOVEMBER THEORY ● Brief study of musical elements in natyashastra. ● Notation of a tarana in Raga bihag ● brief study of tarana NOVEMBER PRACTICAL ● Recitation of one tarana in raga bihag ● Recognition of Ragas	Students will be able to : ● perform the compositions they have learnt and with a detailed practical and theoretical description of Raag Bihag and a Tarana in it. ● Recognise the raags by hearing them and identifying the position of notes being used.	Students will be asked to recite the Devotional song they've learnt will be also asked to work on a project containing the theoretical structures and topics from the syllabus.	● Recitation of the drut tarana in raag Bihag set in teental will be taught to the students including the elements such as aaroh, avroh, aalap, taan etc.	Text Books and Musical instruments.	● History: origin of raag ● Science: Exploring sound waves and vibration of rhythm.
---	---	--	---	--	--

Painting

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Fundamentals of Art Sub-Topics: Elements of Art & Principles of Art Practical: Contour Design Colour wheel No. of Periods: 09 each When: April	Students will be able to: - Identify and apply elements and principles in artwork - Analyse how elements and principles create visual impact - Develop creative compositions using fundamental concepts	Rubric-Based Evaluation Criteria based on creativity, composition, and techniques Peer Assessment Classmates provide constructive feedback on each other's work Portfolio Review Collection of sketches and completed compositions Concept Mapping – Visual representation of how elements and principles interconnect	Visual Exploration Observing artworks and nature for elements Hands-on Practice Drawing exercises focusing on each element Interactive Demonstration Showing contrasts in art principles Collage Making Using textures, colours, and patterns	Traditional Art Materials Pencils, Watercolours, charcoal Tactile Objects Textured materials for hands-on learning Colour Wheel & Charts Understanding colour relationships Classroom Models Geometric shapes, sculptures for form study	Mathematics Proportion, symmetry, patterns Science Light, colour theory, material properties History Evolution of artistic styles using elements and principles Literature Storytelling through visual composition

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary	
Topic: Pre-Historic Painting Sub-Topics: Introduction & Line Drawing (Stick Figures) Practical: Line Drawing & Stick Figure Art Terracotta Experimentation No. of Periods: 8 When: May	Students will be able to: Understand the significance of pre-historic art in early human civilization. Identify the materials, themes, and techniques used in rock paintings. Develop artistic skills through line drawing and stick figure compositions.	- Quiz on pre-historic cave paintings and their characteristics. - Practical assignment on stick figure and line drawing compositions. - Class discussion on the purpose and symbolism of pre-historic art.	Lecture with Visual Aids Hands-on Activity Storytelling Approach: Discuss how early humans communicated through drawings. Comparison Study Compare pre-historic art with early forms of storytelling. Classroom Display Showcase student-created stick figure paintings.	Online virtual tours Art Materials Clay Charcoal Natural pigments Handmade paper	History Evolution of early human civilizations.. Science Study of natural pigments used in cave paintings Geography Locations of pre-historic caves Mathematics Proportions and repetition in cave art symbols	

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary	
Topic: Art of Indus Valley Sub-Topics: Introduction, Sculpture, and Terracotta. Practical: Replica of seals & Nature study No. of Periods: 8 When: July	Students will be able to: - Understand the artistic and cultural significance of Indus Valley art. - Identify the materials, themes, and techniques used in sculptures and terracottas - Develop hands-on skills by creating Indus Valley-inspired seals and nature studies.	- Practical activity on making clay seals with Indus motifs - Group discussion on the symbolism and function of Indus art - Portfolio submission including sketches, nature study and reflections.	Lecture with Visual Aids Use images, videos, and timelines of Indus artifacts Artifact Study Analyse famous sculptures like the Dancing Girl and Priest-King Hands-on Activity: Create clay seals and nature-inspired terracotta art.	- Clay - Carving tools - Reference images of Indus seals and sculptures	History Study Harappan culture, urban planning, and trade Science Explore clay properties, firing techniques, and preservation. Mathematics Identify geometric patterns and symmetry in Indus seals Biology Conduct nature studies inspired by Indus Valley animal motifs	

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary	
Topic: Buddhist, Jain, and Hindu Art Sub-Topics: Art during the Maurya, Shunga, Kushana and Gupta Periods Practical: Still Life & Symmetrical design No. of Periods: 8 When: August	Students will be able to: Identify characteristics of Buddhist, Jain, and Hindu art across the specified periods Analyse the evolution of artistic styles Create still life compositions incorporating symmetrical design principles	- Visual analysis comparing artworks from different periods - Practical projects: creating still life artworks with symmetrical designs - Peer reviews and self-assessment of art projects	- Use visual aids and slideshows of artworks from each period - Facilitate group discussions on the cultural significance of art pieces - Conduct hands-on workshops for still life and symmetrical design creation	- Art supplies for practical sessions Drawing materials Objects for still life - Educational videos and documentaries on ancient Indian art	History Explore the political and social contexts of the Maurya, Sunga, Kushana, and Gupta periods Religious Studies Examine the influence of Buddhism, Jainism, and Hinduism on art forms Geometry Apply symmetrical design principles in art projects.	

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Buddhist, Jain, and Hindu Art Sub-Topics: The Art of Ajanta Caves Practical: Two-Figure Composition & Monochromatic Art/Design No. of Periods: 8 When: September	Students will be able to: Identify characteristics of Buddhist, Jain, and Hindu art across the specified periods Analyse the evolution of artistic styles Create still life compositions incorporating symmetrical design principles	- Visual analysis comparing artworks from different periods - Practical projects: creating still life artworks with symmetrical designs - Peer reviews and self-assessment of art projects	- Use visual aids and slideshows of artworks from each period - Facilitate group discussions on the cultural significance of art pieces - Conduct hands-on activity for still life and symmetrical design creation	- Art supplies for practical sessions Drawing materials Objects for still life - Educational videos and documentaries on ancient Indian art	History Explore the political and social contexts of the Maurya, Sunga, Kushana, and Gupta periods Religious Studies Examine the influence of Buddhism, Jainism, and Hinduism on art forms Geometry Apply symmetrical design principles in art projects.

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Temple Sculptures Sub-Topics: Artistic Aspects of Indian Temple Sculptures Practical: Animal Composition & Folk Art No. of Periods: 8 When: October	Students will be able to: - Identify and analyse the artistic elements of Indian Temple sculptures - Understand the cultural and religious significance of animal motifs in temple art - Develop skills in creating animal compositions inspired by traditional sculptures	- Visual analysis on selected temple sculptures - Practical assignments: creating original animal compositions - Projects replicating or drawing inspiration from Indian folk art styles - Peer reviews to encourage collaborative learning.	Use visual presentations showcasing diverse temple sculptures and their artistic features. Organize discussions on the symbolism of animal motifs in temple art. Conduct hands-on workshops focusing on sculpting or drawing animal compositions. Introduce students to various Indian folk art forms through interactive sessions.	- Images and videos of Indian temple sculptures. - Art supplies for practical sessions, such as paints, and brushes.	History Examine the historical development of temple architecture and its societal impacts Religious Studies Explore the religious narratives and symbolism depicted in temple sculptures.

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Temple Sculptures Sub-Topics: Indian Bronze Sculptures Practical: Still Life & Folk Art No. of Periods: 8 When: November	Students will be able to: Identify and analyse the characteristics of Indian bronze temple sculptures Develop skills in creating still life compositions inspired by bronze sculptures Explore and apply techniques from Indian folk art traditions in practical projects.	• Practical assignments: creating still life compositions reflecting the aesthetics of bronze sculptures • Projects replicating or drawing inspiration from Indian folk art styles • Peer reviews and group critiques to encourage collaborative learning	• Discussions on the cultural and religious contexts of these sculptures • Conduct hands-on workshops focusing on still life composition techniques • Introduce students to various Indian folk art forms through interactive sessions	• Images and videos of Indian bronze sculptures, such as those from the Chola period. • Art supplies for practical work, including materials suitable for still life and folk art projects.	History Examine the historical development of bronze sculpture in Indian temple art and its societal impacts. Religious Studies Explore the religious narratives and symbolism depicted in bronze sculptures.

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Indo-Islamic Architecture Sub-Topics: Artistic Aspects of Indo-Islamic Architecture Practical: Landscape with Perspective & Three-Figure Composition No. of Periods: 8 When: December	Students will be able to: - Identify and analyse key artistic elements of Indo-Islamic architecture - Apply principles of perspective to create landscape compositions - Develop skills in composing artworks featuring three human figures	- Visual analysis on selected Indo-Islamic architectural structures - Practical assignments: creating landscape utilizing perspective techniques - Projects focusing on three-figure compositions - Peer reviews and group critiques to foster collaborative learning	- Organize discussions on the cultural and historical contexts of these structures - Conduct hands-on workshops focusing on landscape perspective techniques - Guide students in developing three-figure compositions through interactive sessions	Educational Toolkits Utilize resources such as "Islamic Art and Geometric Design: which provides pattern-making activities and insights into Islamic art principles. - Materials suitable for landscape and figure composition projects.	History Explore the historical development and cultural significance of Indo-Islamic architecture. Geometry Understand the mathematical principles underlying perspective in art and architecture.

Topic No. of periods When	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter- disciplinary
Topic: Comprehensive Revision Sub-Topics: Fundamentals of Visual Arts, Historical Art Movements: Prehistoric to Indo-Islamic Art, Techniques in Drawing and Painting Practical: Contour Design & Colour wheel No. of Periods: 09 each When: Jan./Feb	Students will be able to: - Understand of visual art elements and principles - Analyse various art movements and their cultural contexts - Enhance proficiency in diverse artistic techniques - Develop critical thinking and creative problem-solving skills	- Portfolio reviews showcasing individual progress. - Practical assignments demonstrating technique application. - Written reflections on art movements and personal insights. - Peer evaluations to foster collaborative learning.	- Interactive Workshops - Visual Analysis - Group Discussions - Project-Based Learning	Art Supplies: Variety of mediums including paints, charcoals, and digital tools. Online Platforms: Access to virtual museum tours and art tutorials. Textbooks and Academic Journals	Mathematics Science History Literature

PHYSICAL EDUCATION

Topic/Month	Learning Outcomes	Assessment Tools	Teaching Learning Strategies/ Activities	Resources	Interdisciplinary Activities
July Changing Trends and Careers in Physical Education • Concept< Aims and objectives of physical education • Development of physical education in India – Post Independence • Changing trends in sports playing surface, wearable gear and sports equipment, technological advancements • Career options in physical education • Khelo- india programme and fit-India programme	After completing the unit, the students will be able to: • Recognize the concept, aim, and objectives of physical education. • Identify the post-independence development in physical education. • Categorize changing trends in sports- playing surface, wearable gear, sports equipment, technological • Explore different career options in the field of physical education. • Make out the development of khelo india and Fit India programme. After completing the unit, the students will be able to:	Class discussion, Assignment		BIG- Thing Publication	

Olympism value Education • Olympism – Concept and Olympics values (Excellence, friendship and respect) • Olympic Value Education – Joy of effort, fair play, Respect for others, pursuit of Excellence, Balance Among Body, Will and Mind • Ancient and Modern Olympics • Olympics – Symbols, Motto, Flag, Oath, and Anthem • Olympic Movement Structure – IOC, NOC, IFS Other member.	• Incorporate values of Olympism in your life. • Differentiate between Modern and Ancient Olympic Games, Paralympics, and Special Olympic games • Identity the Olympic Symbol and Ideals • Describe the structure of the Olympic Movement structure.	Oral discussion	Research to find out more about Olympic Games Boycotts during 1920,1936,1948,1972,1976 & 1980	BIG- Thing Publication	
--	---	------------------------	--	--------------------------------------	--

August Yoga and Importance of Yoga ● Meaning and importance of Yoga ● Introduction to Astanga Yoga ● Yogic Kriyas(Shat Karma) ● Pranayama and its types. ● Active lifestyle and stress management through Yoga Physical education and sports for CWSN (Children with special need – Divyang) ● Concept of Disability and Disorder ● Types of Disability,	After completing the unit, the students will be able to: ● Recognize the concept of yoga and be aware of the importance of it ● Identify the element of yoga ● Identify the asanas, Pranayama's, meditation and yogic kriyas ● Classify various yogic activities for the enhancement of concentration ● Know about relaxation techniques for improving concentration. After completing the unit, the students will be able to: ● Identify the concept of Disability and Disorder. ● Outline types of Disability and describe their causes	Class discussion, Assignment		BIG- Thing Publication	
--	---	---	--	--------------------------------------	--

its causes and nature (intellectual disability). ● Disability Etiquette ● Aim and objectives of Adaptive physical education ● Role of various professionals for children with special needs(Counselor, Occupational therapist, physiotherapist, physical education teacher, speech therapist and special educator)	and nature. ● Adhere to and respect children with special needs by following etiquettes. ● Identify possibilities and scope in adaptive physical education ● Relate various types of professional support for children with special needs along with their roles and responsibilities.	Class Discussion Oral test	Working in groups, investigate the history of the Indian Paralympics and special Olympics and special Olympics teams of last Olympics. Who have been most successful athletes.	BIG- Thing Publication	
September Physical Fitness, Wellness, and Lifestyle ● Meaning and importance of wellness, health, and physical fitness. ● Components/Di mensions of wellness, Health, and Physical fitness ● Traditional sports	After completing the unit, the students will be able to: ● Explain wellness and its importance and define the components of wellness. ● Classify physical fitness and recognize its importance in life ● Distinguish between skill-related and health-related components of physical fitness.	Class test	● Name a sports person who proved to be a great leader in his/her sport. Also state the leadership qualities due to which he/she gains the status of great leader.	BIG- Thing Publication	

and regional games from promoting wellness ● Leadership through physical Activity and sports ● Introduction to First Aid-PRICE October Test, Measure and Management ● Define Test, Measurement and Evaluation. ● Importance of Test, Measurement and evaluation sports. ● Calculation of BMI, waist – Hip ratio, Skin fold measurement ● Somato Types(Endomorphy and Ectomorphy) ● Measurement of health related fitness.	● Illustrate traditional sports and regional games to promote wellness. ● Relate leadership through physical activity and sports ● Illustrate the different steps used in First Aid-PRICE. After completing the unit, the students will be able to: ● Define the terms test, measurement, and evaluation. ● Differentiate norms and criterion referenced standards. ● Differentiate formative and summative evaluation, ● Discuss the importance of measurement and evaluation processes, ● Understand BMI: A popular clinical standard and its computation ● Differentiate between Endomorphy and Ectomorphy and describe	By giving calculation to find out BMI & oral test	● Each student of the class perform Push-ups and sit ups to measure their muscular endurance.	BIG- Thing Publication	Activity: Fitness data analysis and performance management Related to mathematics: Data collection, statistical analysis.
---	--	--	---	--------------------------------------	--

	the procedure of Anthropometric measurement				
November Fundamentals of Anatomy, Physiology in sports • Definition and importance of Anatomy and physiology in Exercise and Sports. • Functions of Skeletal system, Classification of Bones, and Types of joints. • Properties and Functions of Muscles. • Structure and functions of circulatory system	After completing the unit, the students will be able to: • Identify the importance of anatomy and physiology • Recognize the functions of the skeleton. • Understand the functions of bones and identify various types of joints. • Figure out the properties and functions of muscles and understand how they work. • Understand the anatomy of	Class test & identification of pictures	• Select a player of your favourite sport who got injures while playing the sport. Study about his/her injury type and how it was treated. Is it possible to prevent such type of injury while playing the sport?	BIG- Thing Publication	Biology: Students will analyze how muscular and cardiovascular system affecting an athlete's performance.

and hearts. • Structure and functions of respiratory system.	the respiratory system and describe it's working. • Identify and analyses the layout and functions of circulatory system.				
December Fundamentals of Kinesiology and Biomechanics in sports • Definition and Importance of Kinsiology and Biomechanics in sports. • Principles of Biomechanics • Kinetics and Kinematics in sports • Types of Body Movements – Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination and pronation • Axis and planes –	After completing the unit, the students will be able to: • Understand Kinesiology and Biomechanics with their application in sports. • Explain biomechanical principles and their utilization in sports and physical education. • Illustrate fundamental body movements and their basic patterns. • Learn about the Axis and planes and their application with body movements.	Oral Class test Assignment		BIG- Thing Publication	Students will analyze the biomechanics and kinesiology of a basketball sot by integrating physics and anatomy.

concept and its application in body movements.					
--	--	--	--	--	--

Psychology and sports ● Definition and importance of psychology in physical education and sports ● Development characteristics at different stages of development ● Adolescent problems and their management ● Team cohesion and sports ● Introduction to psychology attributes attention, resilience, Mental toughness January Training and Doping in sports ● Concept and	After completing the unit, the students will be able to: ● Identify the role of psychology in physical education and sports ● Differentiate characteristics of growth and development at different stages. ● Explain the issues related to adolescent behaviour and team cohesion in sports ● Correlate the psychological concepts with the sports and athlete specific situations.	Questions through case studies	Identify the stressful events, which you have experienced in the past year, Find out how much ability, skill and family or friends support you have in order to deal with those events.	BIG- Thing Publication	
	After completing the unit, the students will be able to:			BIG- Thing	

principles of sports training ● Training load: Over load, adaptation and recovery ● Warming-up and limbering down – types, methods and importance ● Concept of skill, technique, tactics and strategies ● Concept of doping and its disadvantages.	● Understand the concept and principles of sports training ● Summarise training load and its concept ● Understand the concept of warming up and limbering down in sports training and their types, methods and importance. ● Acquire the ability to differentiate between the skills, technique, tactics and strategies in sports training ● Interpret concept of doping.	Class test project		Publication	
--	---	---------------------------	--	---------------------------	--