

STD X - YEAR PLAN FOR THE ACADEMIC YEAR 2023-24

MONTH	TOPIC	SUB-TOPICS	GRAMMAR	WRITING
MARCH 20 - 31	FIRST FLIGHT			
	UNIT - 1	a. A Letter to God b. Dust of Snow(P) c. Fire and Ice(P)		Letter of Complaint
APRIL 1-20	FIRST FLIGHT			
	UNIT - 2	a. Nelson Mandela : Long Walk to Freedom b. A Tiger in the Zoo(P)	Determiners	Letter of Enquiry
	FOOTPRINTS WITHOUT FEET			
	UNIT - 1	A Triumph of Surgery		
JUNE (23 DAYS)	FIRST FLIGHT			
	UNIT - 3	a. Two Stories About Flying I. His First Flight II. Black Aeroplane b. How to Tell Wild Animals c. The Ball Poem	Tenses	Letter Placing Order
	FOOTPRINTS WITHOUT FEET			
	UNIT - 2	The Thief's Story		
	UNIT - 3	The Midnight Visitor		
PERIODIC TEST 1 - (JUNE 12 to 17)				
JULY (22 DAYS)	FIRST FLIGHT			
	UNIT - 4	a. From the Diary of Anne Frank b. Amanda!	Modals	
	FOOTPRINTS WITHOUT FEET			
	UNIT - 4	A Question of Trust		
	UNIT - 5	Footprints Without Feet		
	FIRST FLIGHT			
	UNIT - 5	a. Glimpses of India I. A Baker From Goa II. Coorg		

		III. Tea From Assam		
		b. The Trees		
PERIODIC TEST 2 -(JULY 31 to AUG 5)				
AUGUST (19 DAYS)	FIRST FLIGHT			
	UNIT - 6	a. Mijbil the Otter		
		b. Fog (P)	Subject Verb Concord	Letter to the Editor
	UNIT - 7	a. Madam Rides the Bus		
		b. The Tale of Custard the Dragon (P)		
SEPTEMBER (19 DAYS)	FOOTPRINTS WITHOUT FEET			
	UNIT -6	The Making of a Scientist	Reported Speech- Commands and Requests	Analytical Paragraph
	UNIT - 7	The Necklace		
	FIRST FLIGHT			
	UNIT - 8	a. The Sermon at Benares		
OCTOBER (21 DAYS)	FIRST FLIGHT			
	UNIT - 8	b. For Anne Gregory(P)		
			Reported Speech- Statements and Questions	
	FOOTPRINTS WITHOUT FEET			
	UNIT -8	Bholi		
PERIODIC TEST 3 - (OCT 5 - 16)				
NOVEMBER (24 DAYS)	FIRST FLIGHT			
	UNIT - 9	The Proposal		
	FOOTPRINTS WITHOUT FEET			
	UNIT -9	The Book That Saved the Earth		

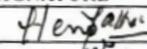
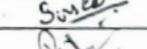
SERIAL NO.	NAME OF THE TEACHER	NAME OF THE SCHOOL	SIGNATURE	
1	AMBILI B	BVM EROOR		
2	INDU PANICKER	BVM GIRINAGAR		
3	SAJINI K S	BAV KAKKANAD		
4	SONIA P M	BVM ELAMAKKARA		
5	MAYA MATHEW	BVV THRIKKAKARA		
6	MANJUSHA R	BNV VELLOOR		
7	BABY VISMAYA VENU	BMV THIRUVAMKULAM		

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
YEAR PLAN FOR THE ACADEMIC YEAR 2023-24
MALAYALAM
CLASS - X

MONTH	TOPIC	SUB-TOPICS	CONCEPTS	EVALUATION
ഏപ്രിൽ	കാലാതീതം കാവ്യവിസ്മയം അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ	ലക്ഷണ സാന്ത്വനം. കടൽത്തീരത്ത്	ഭാഷാപിതാവ്-പ്രാചീന കവിത്രയം കലഹം നിരർത്ഥകം, ഭക്തി പ്രസ്ഥാനം ,കിളിപ്പാട്ട് പ്രസ്ഥാനം. * കാവ്യാത്മകമായ ഗദ്യം * രചനാകാലത്തെ സാമൂഹികപശ്ചാത്തലം. ആധുനിക ചെറുകഥ	
	രചന	വാക്യപ്രയോഗം അവധാരണം കത്ത്(ഔദ്യോഗികം)	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	
ജൂൺ	അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ	പ്രിയദർശനം	* ആധുനിക കവിത്രയം * ഖണ്ഡകാവ്യം * ജീവിതഗന്ധിയായ കവിതകൾ * ജീവിതദർശനം കവിതയിലൂടെ .	P 1 : ലക്ഷണ സാന്ത്വനം കടൽത്തീരത്ത് (MCQ & VOCABULARY) വാക്യ പ്രയോഗം അവധാരണം
	വ്യാകരണം	കർത്തരി പ്രയോഗം കർമ്മണിപ്രയോഗം വിധിവാക്യം നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ	ഭാഷാപ്രയോഗശേഷി	
	ഉപപാഠം	ചട്ടമ്പിസ്വാമികൾ (1-4)	ബാല്യവും വിദ്യാഭ്യാസവും	

<p>ജൂലൈ</p>	<p>സംഘർഷങ്ങൾ സങ്കീർത്തനങ്ങൾ</p>	<p>യുദ്ധത്തിന്റെ പരിണാമം</p>	<p>നിരുപണ പ്രസ്ഥാനം * ഇതിഹാസങ്ങളുടെ സമകാലിക പ്രസക്തി. * യുദ്ധക്കൈതുകൾ</p>	<p>P 2: പ്രിയദർശനം കടൽത്തീരത്ത് ചട്ടമ്പിസ്വാമികൾ (1-4 അധ്യായം) വിധി നിഷേധം പ്രയോഗം മാറ്റുക അംഗാംഗി വാക്യങ്ങൾ വാക്യ പ്രയോഗം</p>
<p>ആഗസ്റ്റ്</p>	<p>ജീവിതം പടർത്തുന്ന വേരുകൾ</p>	<p>അമ്മത്തൊട്ടിൽ</p>	<p>വാർദ്ധക്യത്തിന്റെ നിസ്സഹായത * പ്രയോഗ ഭംഗി * ആധുനിക സമൂഹത്തിന്റെ മനോഭാവം * കവിതയുടെ കാലിക പ്രസക്തി</p>	
	<p>രചന</p>	<p>പത്രനില്പാർട്ട് ഉപന്യാസം</p>	<p>സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന</p>	
<p>സെപ്റ്റംബർ</p>	<p>വാക്കുകൾ വിടരുന്ന പുലരികൾ</p>	<p>പണയം</p>	<p>ആധുനിക ചെറുകഥകൾ * കഥകളിലെ അചേതന കഥാപാത്രങ്ങൾ * ഭാവോത്ഥകത * വികാരപരത</p>	
	<p>രചന</p>	<p>വാക്യശുദ്ധി</p>	<p>ഭാഷാപ്രയോഗശേഷി</p>	
<p>ഒക്ടോബർ</p>	<p>നിലാവു പെയ്യുന്ന നാട്ടുവഴികൾ</p>	<p>ഓണമുറ്റത്ത്</p>	<p>* കേരളത്തിന്റെ സാംസ്കാരികപൈതൃകത്തിലുള്ള അഭിമാനം * ഗ്രാമീണ സൗന്ദര്യം * പ്രകൃതിയിലെ മാനുഷിക ഭാവങ്ങൾ .</p>	<p>P 3: യുദ്ധത്തിന്റെ പരിണാമം അമ്മത്തൊട്ടിൽ പണയം വാക്യപ്രയോഗം, വാക്യശുദ്ധി പത്രനില്പാർട്ട് വിധിവാക്യം നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ</p>

നവംബർ	ചട്ടമ്പിസ്വാമികൾ - ജീവിതവും സന്ദേശവും	ചട്ടമ്പിസ്വാമികൾ അധ്യായങ്ങൾ(5-9)	മഹത് വ്യക്തികളുടെ ജീവിതം .	
ഡിസംബർ	വ്യാകരണം	ആവർത്തനം	ഭാഷാപ്രയോഗരീതി. ഭാഷാശുദ്ധി	Model Examinations I & II /Final Examination Topics - 1.ലക്ഷ്യേണ സാന്ത്വനം 2.പ്രിയദർശനം 3.അമ്മത്തെട്ടിൽ 4.ഓണമുറ്റത്ത് 5.കടൽത്തീരത്ത് 6. യുദ്ധത്തിന്റെ പരിണാമം 7.പണയം *ചട്ടമ്പിസ്വാമികൾ (1-9) Grammar - അംഗാംഗി വാക്യങ്ങൾ, വാക്യശുദ്ധി, വാക്യപ്രയോഗം ,വിധിവാക്യം - നിഷേധ വാക്യം, പ്രയോഗം മാറ്റുക Composition - അവധാരണം, കത്ത്, പത്രനിപ്പോർട്ട്, ഉപന്യാസം
ജനുവരി & ഫെബ്രുവരി	രചന	ആവർത്തനം	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	

SL.No	NAME OF THE TEACHERS-	SCHOOL	SIGNATURE
1	HEMALATHA N	BAV .KAKKANAD	
2	SUSEELA K U	BVM,EROOR	
3	PREETHY P R	BVM,ELAMAKKARA	
4	BINDHU S	BVM GIRINAGAR	
5	DEEPA CHANDRAN	BNV,VELLOOR	
6	SREEKALA P	BMV THIRUVAMKULAM	
7	SINDHU K B	BVV. THRIKKAKARA	

BHARATIYA VIDYA BHAVAN , KOCHI KENDRA
YEAR PLAN -2023-2024
SUBJECT : Artificial Intelligence
STD: X

MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH/ APRIL	Unit 1 - Introduction to AI	What is Intelligence? Decision Making. <ul style="list-style-type: none"> How do you make decisions? Make your choices What is Artificial Intelligence and what is not? Introduction to AI and related terminologies. Applications of AI AI Ethics	Definition of intelligence AI applications Different types of intelligence Concept of decision making Comparison between AI and not AI <ul style="list-style-type: none"> Introducing AI, ML & DL. Introduction to AI Domains (Data, CV & NLP) A look at Real-life AI implementations AI Ethics (Data privacy, AI bias, AI for all, AI for kids)
JUNE	PART B: Unit 2 - AI Project Cycle PART A: Unit 1 - Communication Skills II	<ul style="list-style-type: none"> Introduction Problem Scoping, Sustainable Development Goals Data Acquisition Data Exploration Modeling & Evaluation Neural Networks. <ul style="list-style-type: none"> Communication cycle and feedback Methods of communication Barriers to effective communication 7 Cs of effective communication 	<ul style="list-style-type: none"> Introduction to AI project cycle Understanding Problem Scoping using 4Ws problem canvas, Problem statement template. Understanding Sustainable Development Goals Data Sources, Data features Data Exploration using different types of charts Different AI models Supervised (Classification, Regression), Unsupervised(Clustering, Dimensionality Reduction) Definition of Evaluation Understanding Neural Networks. Model performance and layers <ul style="list-style-type: none"> Features of Neural Network Methods of communication , Verbal communication, non-verbal communication Understanding Communication cycle and importance of feedback Different types of barriers to effective communication, ways to overcome barriers. <p style="color: red;">(Periodic Assessment 1 - June12 to June 17) Portions for exam (Marks 30) Introduction to AI, AI Project cycle - Problem Scoping</p>
JULY	PART C: Advance Python (To be assessed through Practical) PART A: UNIT 2-Self Management Skills -II	<ul style="list-style-type: none"> Recap 1: Jupyter Notebook Recap 2: Introduction to Python Recap 3: Python Basics Python Packages Self Management Skills -II <ul style="list-style-type: none"> meaning and importance of stress management stress management techniques Introduction to self-awareness describe the meaning of self-motivation and self-regulation Self regulation - Goal setting, Time management 	Introduction to Python through Jupyter Notebook Variables in Python, print(), input(), conditional statements using if...else, looping statements using for, while Introduction to Python packages - NumPy, OpenCV, Matplotlib <ul style="list-style-type: none"> Introduction to stress management Importance of stress management and stress management techniques Ability to work independently Strength and weakness analysis Difference between abilities and interests Types of motivation Qualities of self-motivated people Goals and setting SMART goals Time management and its importance Tips for effective time management <p style="color: red;">(Periodic Assessment 2 - July 31 to August 5) Portions for exam (Marks 50) AI Project Cycle - Data Acquisition, Data Exploration, Modeling, Evaluation EMPLOYABILITY SKILLS - UNIT 1- Communication Skills, UNIT 2 - Self Management Skills -II</p>

AUGUST	<p>PART A: UNIT 3- Information and Communication Technology Skills-II</p> <p>PART B: DATA SCIENCES</p> <p>PART C: DATA SCIENCES (Practical)</p>	<ul style="list-style-type: none"> ● Basic Computer Organisation and operations. ● Files and folders ● Care and Maintenance of Computer ● Introduction to Data Science ● Revisiting AI Project Cycle ● Concepts of Data Sciences <p>Part C: Data Sciences (Practical)</p> <ul style="list-style-type: none"> ● K-nearest neighbor model (Optional for extra knowledge which will not be assessed for the examination) 	<ul style="list-style-type: none"> ● Basic Computer hardware and software ● Starting up and shutting down ● Using the keyboard - different types of keys ● Using the mouse - different mouse functions ● Performing Basic file operations ● Keeping a device clean Backup your data ● Scanning and cleaning viruses ● Computer security and privacy <ul style="list-style-type: none"> ● Applications of Data Science ● Revisiting AI Project Cycle Problem scoping, Data acquisition, data exploration, modelling and evaluation ● Data collection, Types of data, Data access ● Python for Data Sciences ● Statistical Learning & Data Visualization using Numpy, Matplotlib <ul style="list-style-type: none"> ● K-nearest neighbor model (Optional)
SEPTEMBER	<p>PART B: COMPUTER VISION</p> <p>PART C: COMPUTER VISION (Practical)</p> <p>PART A: Employability skills UNIT 4- Entrepreneurial skills II</p>	<ul style="list-style-type: none"> ● Entrepreneurship and society ● Qualities and functions of an entrepreneur ● Myths about entrepreneurship ● Entrepreneurship as a career option. ● Introduction to Computer Vision ● Understanding CV Concepts <p>Part C: Computer Vision (Practical)</p> <ul style="list-style-type: none"> ● Convolution Operator (Optional for extra knowledge which will not be assessed during the examination) 	<ul style="list-style-type: none"> ● Qualities of an entrepreneur ● Functions of an entrepreneur ● Misconceptions about entrepreneurship ● Entrepreneurship as a life choice. <ul style="list-style-type: none"> ● Definition and Applications of CV ● Understanding CV Concepts ● Computer Vision Tasks ● Basics of Images-Pixel, Resolution, Pixel value ● Grayscale and RGB images ● Image features <ul style="list-style-type: none"> ● Introduction to OpenCV ● Hands-on: Image Processing <ul style="list-style-type: none"> ● Convolution Operator (Optional for extra knowledge which will not be assessed during the examination)
OCTOBER	<p>PART B: Unit 6 Natural Language Processing</p> <p>PART A: Unit 5 Green Skills</p>	<ul style="list-style-type: none"> ● Introduction to Natural Language Processing ● Chatbots ● Language Differences ● Concepts of Natural Language Processing ● TFIDF(Optional), NLTK (Optional) ● Sustainable Development ● Our Role in Sustainable Development 	<ul style="list-style-type: none"> ● Introduction to Natural Language Processing ● NLP Applications ● Revisiting AI Project Cycle ● Chatbots - different types of chatbots (Smart and Script bots) ● Human language vs Computer language ● Data Processing ● Bag of Words ● TFIDF(Optional), NLTK (Optional) ● Problems related to Sustainable Development ● Sustainable Development Goals <p>(Periodic Assessment 3 - October 5 to October 16)</p> <p>Portions for exam Theory (Marks 50)</p> <ul style="list-style-type: none"> ● EMPLOYABILITY SKILLS - UNIT 3- Information and Communication Technology Skills-II, UNIT 4- Entrepreneurial skills II ● PART B - DataSciences, Computer Vision, Natural Language Processing

NOVEMBER	PART B: Subject specific skills Unit 7 Evaluation	Introduction <ul style="list-style-type: none"> ● Model Evaluation Terminology : ● Confusion Matrix - ● Evaluation Methods 	Introduction to Evaluation, Importance of testing and training data <ul style="list-style-type: none"> ● The Scenario - Prediction, Reality, True Positive, True Negative, False Positive, False Negative ● Confusion Matrix - Using Confusion matrix for evaluation ● Accuracy <ul style="list-style-type: none"> ● Precision ● Recall ● Which Metric is Important? - Precision or Recall ● F1 Score
DECEMBER			First Model Examination December 5 - December 18
JANUARY			Second Model Examination January 4 - January 17 Board Practical Examination

BHARATIYA VIDYA BHAVAN ,KOCHI

COMPUTER APPLICATIONS YEAR PLAN X 2023-24

MONTH	TOPIC	SUB-TOPIC	CONCEPTS
APRIL	HTML - 1	Introduction to web page designing using HTML, HTML tags:	Introduction to web page designing using HTML: create and save an HTML document, access a web page using a web browser.
JUNE	Internet Basics and services and Mobile Technologies	Introduction to Internet Internet protocols Services available on Internet Web services Mobile Technologies PERIODIC TEST – I (JUNE 12-JUNE 17)	Internet: WWW, Web servers, web clients, web sites, web pages, web browsers, blogs, newsgroups, HTML, Web address, e-mail address, downloading and uploading files from a remote site, Internet protocols: TCP/IP,SMTP,POP3, HTTP, HTTPS. Remote login and files transfer protocols : SSH, SFTP, FTP, SCP, Telnet, SMTP, TCP/IP . Services available on Internet – information retrieval, locating sites using search engines and finding people on the net. Web services – Chat, e-mail, video conferencing, e-learning, e-banking, e-shopping, e-reservation, e-governance, e-group, social networking. Mobile Technologies :SMS,MMS,3G, 4G
JULY	HTML 2	Inserting images and forms PERIODIC TEST – II (JULY 31-AUG 05)	Insertion of images using the element IMG (Attributes SRC, Width, height, alt) HTML Forms :(text box, radio buttons, checkbox , password, list, combo box, reset, submit)
AUGUST	HTML2	Links and Tables	Create a table using the tags: table, tr, th, td, rowspan, colspan,External linking

SEPTEMBER	Cyber Ethics	<p>Cyber ethics for E-commerce Other ethical issues Open Source philosophy and software li Freedom of information and Digital divi</p>	<p>Netiquettes. Software licences and the open source software movement. Intellectual property rights, plagiarism and digital property rights. Freedom of information and the digital divide E-commerce: privacy, fraud, secure data transmission</p>
OCTOBER	CSS	<p>PERIODIC TEST III (Oct 05- Oct 16)</p> <p>DHTML, Static vs Dynamic HTML, CSS elements and properties, Limitations of CSS</p>	<p>Cascading style sheets : color, background - color, border style, margin, height, width, outline, font(family, style, size), align, float DHTML components, Benefits of CSS, Adding stylesheets to webpages Inline, internal/embedded, external styles sheets CSS elements and properties: Universal selector(*), colors and background, properties related to font, text, margins and padding and borders Limitations of CSS</p>
NOVEMBER	HTML 2	<p>Embed audio and video in a HTML page & LINKS (Portions end by November 15)</p> <p>PROJECT WORK & RECORD WORK (To be submitted by November 15th)</p>	<p>Inserting audio using audio tag, linking to an audio clip, embedding an audio clip using embed tag Inserting video using video tag, linking to a video clip, embedding a video clip using embed tag</p>
DECEMBER		FIRST MODEL(Dec 5 - Dec 18)	
JANUARY		<p>REVISION MODEL EXAM II (JAN 4-JAN 17) MODEL PRACTICAL EXAM</p>	
FEBRUARY		FINAL PRACTICAL EXAM	

BHARATIYA VIDYA BHAVAN - KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2023-24 STD: X - SUBJECT: SOCIAL SCIENCE (087)			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
March/April	<p>G- 1. Resources and Development</p> <p>E- 1. Development</p> <p>P- 1. Power - sharing</p> <p>H-1. The Rise of Nationalism in Europe</p>	<p>Concept,Types of resources, Development of resources, Resource Planning, Resource Planning in India, Land Resources, Land Utilisation, Land Utilisation in India, Land Degradation and Conservation Measures, Soil as a Resource, Classification of Soils, Soil Erosion and Soil Conservation.</p> <p>What Development Promises, Different People, Different Goals. Income and Other Goals, National Development, How to compare different Countries or States? Income and Other Criteria, Public Facilities, Sustainability of Development.</p> <p>Belgium and Sri Lanka, Majoritarianism in Sri Lanka Accommodation in Belgium, Why power sharing is desirable? Forms of power-sharing.</p> <p>The Rise of Nationalism in Europe Introduction, The French Revolution and the idea of the Nation, The Making of Nationalism in Europe, The Aristocracy and the New Middle Class, What did Liberal Nationalism Stand for? A New Conservatism after 1815, The Revolutionaries, The Age of Revolutions: 1830-1848, The Romantic Imagination and National Feeling, Hunger, Hardship and Popular Revolt, 1848: The Revolution of the Liberals.</p> <p>of Nationalism in Europe, The Aristocracy and the New Middle Class, What did Liberal Nationalism Stand for? A New Conservatism after 1815, The Revolutionaries, The Age of Revolutions: 1830-1848, The Romantic Imagination and National Feeling, Hunger, Hardship and Popular Revolt, 1848: The Revolution of the Liberals.</p>	<p>Meaning of Resources Utilisation and Conservation of resources - land and soils, Sustainable Development of the above resources</p> <p>Developmental goal differs from person to person. Differentiate different criterias (Per Capita Income, Health, Education) of measuring development. For development people look at a mix of goals. Importance of sustainability of development - Ground water, crude oil.</p> <p>Importance of power sharing. Ethnic composition of Belgium and Sri Lanka. Majoritarianism practised in Sri Lanka and accommodative method followed in Belgium. Forms of power sharing.</p> <p>Trace the emergence of nationalism in Europe. Understand the nature of nation states developed in 18th Century Role of romanticism and importance of national symbols and icons and unification of Italy, Germany and Britain. Balkans and the first world war.</p>
June	<p>P-2 Federalism</p> <p>G-2 Forest and Wildlife</p>	<p>What is Federalism? What make India a Federal Country? How is Federalism practiced? Decentralization in India</p> <p>Conservation of forest and wildlife in India Types and distribution of forests and wildlife resources Community and Conservation</p>	<p>Distinguish between unitary and federal government. Key features of federalism and division of legislative powers in India. Rationale of decentralisation.</p> <p>Various methods of conservation of forest and wildlife. Distribution of different kinds of flora and fauna. The role of community in the conservation of forest and wildlife.</p>
June/July	<p>E- Sectors of the Indian Economy</p> <p>H- Nationalism in India</p> <p>H- The Age of Industrialization.</p>	<p>Sectors of Economic Activities Comparing the three sectors Primary, Secondary and Tertiary Sectors in India Division of sectors as organized and unorganized Sectors in terms of ownership: Public and Private Sectors</p> <p>The First World War, Khilafat and Non - Cooperation Differing Strands within the Movement Towards Civil Disobedience The Sense of Collective Belonging</p> <p>(Below mentioned topics are activity oriented - Formative Assessment Only) Before the Industrial Revolution. Hand Labour and Steam Power. Industrialisation in the Colonies Factories come up The Peculiarities of Industrial Growth</p> <p>(Only the topic mentioned below is for P2 evaluation) Markets for Goods</p>	<p>Comparison of different sectors of the Indian economy. Significance of the service sector in the Indian economy. Differentiate between organised, unorganised, public and private.</p> <p>Socio-economic conditions of India during the first world war Differentiate Civil Disobedience and Non- Co operation movement. Factors responsible for the emergence of nationalism.</p> <p>Important features of Proto -Industrialisation Inventions of new machines and the coming up of new factories Industrialisation in India and early entrepreneurs of India</p> <p>Various techniques applied for marketing goods."</p>
August	<p>G- Water Resources</p> <p>E- Money and Credit</p> <p>H- The Making of a Global World</p>	<p>Water Scarcity and The Need for Water Conservation and Management Multi-Purpose River Projects and Integrated Water Resources Management Rainwater Harvesting</p> <p>"Role of money in an economy Money as a medium of exchange Modern forms of money, loan activities of banks two different credit situations Terms of credit, Formal sector credit in India. Self Help groups for the poor."</p> <p>(To be evaluated in the Board Examination)The Making of a Global World Subtopics: 1 to 1.3 Pre Modern World to Conquest, Disease and Trade) Interdisciplinary project as part of multiple assessments (Internally assessed for 5 marks Sub topics 2 to 4.4 The nineteenth century (1815-1914) to end of Bretton Woods & the beginning of "Globalisation." Interdisciplinary part of the chapter is only for formative assessment.</p>	<p>Reasons responsible for water scarcity. Suggestions for water conservation. Role of Multi -purpose River Projects Various methods for rain water harvesting.</p> <p>"Money as a medium of exchange Credit - Positive and negative credit situations. Loan activities of formal and informal sectors.</p> <p>The role of Self-help groups for providing credit to the poor"</p> <p>The Pre- modern world The Nineteenth Century (1915-1914) The Inter war Economy. Rebuilding a World Economy: The Post War Era.</p>

BHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE ACADEMIC YEAR 2023-2024

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
अप्रैल	पद्य	कबीर - साखी	नैतिक मूल्यों पर आधारित
	गद्य	बड़े भाई साहब	अनुभव ज्ञान और व्यावहारिक ज्ञान का सामंजस्य
	व्याकरण	मुहावरे	व्याकरण शिक्षा
	लेखन कार्य	अनुच्छेद लेखन	लेखन विधि
जून	पद्य	मीरा-पद मनुष्यता	ईश्वर भक्ति मानवता
	उपपाठ	हरिहर काका	रिश्तों की अहमियत
	व्याकरण	पदबंध औपचारिक पत्र	व्याकरण शिक्षा शुद्ध लेखन शैली का विकास
PERIODIC TEST -1 PORTIONS :- कबीर - साखी , बड़े भाई साहब , मीरा - पद , मुहावरे , अनुच्छेद लेखन			
जुलाई	पद्य	पर्वत प्रदेश में पावस	प्रकृति के प्रति जिम्मेदारी
	गद्य	डायरी का एक पन्ना	देशप्रेम
	लेखन कार्य	सूचना लेखन अपठित गद्यांश	लेखन शैली का विकास अर्थग्रहण
PERIODIC TEST - 2 PORTIONS :- कबीर - साखी , डायरी का एक पन्ना , हरिहर काका , मनुष्यता , पदबंध , पत्र लेखन , अपठित गद्यांश			
अगस्त	पद्य	तोप	ताकत पर घमंड न करना
	गद्य	ततारा-वामीरो कथा	रूढ़ियाँ बंधन नहीं मानव हित के लिए हो
	व्याकरण	रचना के आधार पर वाक्य रूपांतरण	वाक्य घटना
	उपपाठ	सपनों के से दिन	बाल मनोविज्ञान ,बाल केन्द्रित शिक्षा
सितंबर	पद्य	कर चले हम फ़िदा	सैनिक जीवन की चुनौतियाँ /देशप्रेम
	गद्य	तीसरी कसम के शिल्पकार शैलेंद्र	धन लिप्सा रहित कला के प्रति सौ प्रतिशत समर्पण

	लेखन कार्य	विज्ञापन लेखन	सृजनात्मक लेखन शैली
अक्तूबर	PERIODIC TEST-3 PORTIONS :- पर्वत प्रदेश में पावस , ततौरा-वामीरो कथा , रचना के आधार पर वाक्य रूपांतरण , सूचना लेखन , अनुच्छेद लेखन , अपठित गद्यांश		
	पद्य	आत्मत्राण	आत्मोद्धार
	गद्य	अब कहाँ दूसरे के दुःख से दुखी होने वाले	पर्यावरण और मानव - अटूट संबंध
	व्याकरण	समास	व्याकरण शिक्षा
	लेखन कार्य	लघुकथा लेखन	शुद्ध लेखन शैली का विकास
नवंबर	गद्य	पतझर में टूटी पत्तियाँ कारतूस	व्यावहारिक आदर्शवाद , बौद्ध दर्शन देशप्रेम और साहस
	उपपाठ	टोपी शुक्ला	मित्रता धार्मिक समरसता
	लेखन कार्य	औपचारिक ई-मेल लेखन	लेखन विधि
दिसंबर	FIRST MODEL EXAM - FULL PORTION		
जनवरी	SECOND MODEL EXAM - FULL PORTION		
	QUESTION PAPER PATTERN - CBSE BOARD EXAM PATTERN		
फरवरी	पुनरावृत्ति		
मार्च	BOARD EXAM		
NAME OF THE TEACHER	NAME OF THE SCHOOL	SIGN	
K SREEJA	BHAVAN'S VIDYA MANDIR, ELAMAKKARA		
SHYLA M R	BHAVAN'S VIDYA MANDIR, GIRINAGAR		
SOPHIA JOHN	BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD		
YAMUNA K R	BHAVAN'S VIDYA MANDIR, EROOR		
SUJATHA A P	BHAVAN'S VARUNA VIDYALAYA, TRIKKAKARA		

JAYASREE K R	BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR		
RESMI RAMACHANDRAN	BHAVAN'S MUNSHI VIDYASHRAM, TRIPUNITHURA		

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
STD X YEAR PLAN FOR THE ACADEMIC YEAR 2023-24

MONTH	TOPIC	SUB- TOPICS	CONCEPTS
JUNE	1.पद्यम्	शुचिपर्यावरणम्	प्रकृतिसंरक्षणम्
	अभ्यासवान् भव 1- 5	अपठित अवबोधनम्, रचनात्मकं कार्यम्, अनुवादः	
	2.गद्यांशः	बुद्धिर्बलवती सदा	बुद्धिरेव बलम्
	व्याकरणम् 6 & 7	सन्धिः- व्यञ्जन सन्धिः, समासः - तत्पुरुषः	व्याकरणावबोधः
P1- JUNE 12th to 17th LESSONS - 1&2 व्याकरणम् च 			
JULY	नाट्यांशः	शिशुलालनम्	रामायणकथापरिचयः
	व्याकरणम्	सन्धिः-विसर्गसन्धिः, समासः - अव्ययीभावः	व्याकरणावबोधः
	5. गद्यांशः	जननी तुल्यवत्सला	मातृस्नेहः
	व्याकरणम् 8	प्रत्ययाः - मतुप्, ठक्, त्व, तल्	
P2- JULY 31st to AUGUST 5th LESSONS- 4&5 व्याकरणम् च 			
AUGUST	6. पद्यम्	सुभाषितानि	ि
	व्याकरणम् 9	अव्ययानि, समासः- बहुव्रीहिः	
SEPTEMBER	नाटकम्	सौहार्दं प्रकृतेः शोभा	पारस्पर्यविषये गद्यांशः
	व्याकरणम् 11	वाच्यपरिवर्तनम् (लट्) समासः - द्वन्द्वः	
OCTOBER	गद्यम्	विचित्रः साक्षी	न्यायान्यायविवेकः
	व्याकरणम् 12	अशुद्धिसंशोधनम्, वचन - लिङ्ग- विभक्तिः लकार दृष्ट्वाक्यशुद्धिः	
	पद्यम्, व्याकरणम्	सूक्तयः, प्रत्ययौ टाप्, डीप्	सूक्तीनाम् अवबोधः व्याकरणावबोधः
NOVEMBER	पद्यम्	अन्योक्तयः	अन्योक्तीनां अवबोधनम्
DECEMBER	DEC 5th TO DEC 19th FIRST MODEL - ALL LESSONS & GRAMMAR		
JANUARY	JAN 4th TO JAN 17th SECOND MODEL - ALL LESSONS & GRAMMAR		
		(अपठितानुच्छेदः, रचनानुवादः, पत्रलेखनम्, चित्रवर्णनम् च सर्वेषां सत्राणाम् कृते अवश्यकानि)	
	BVM, ELAMAKKARA		
	BVM, GIRINAGAR		
	BVM, EROOR		

	BAV, KAKKANAD		
	BVV, THRIKKAKARA		
	BMV, THRIKUNITHURA		
	BNV, VELLOOR		

BHARATIYA VIDYA BHAVAN ,KOCHI
YEAR PLAN FOR THE ACADEMIC YEAR 2023-24

CLASS	STD X		
SUBJECT	BIOLOGY		
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
March -April	Life Processes	5.1 WHAT ARE LIFE PROCESSES? 5.2 NUTRITION 5.3 RESPIRATION	*Autotrophic Nutrition *Heterotrophic nutrition *How do organisms obtain their nutrition *Nutrition in human beings *Breakdown of glucose by various pathways *Human respiratory system
June	Life Processes	5.4 TRANSPORTION 5.5 EXCRETION	*Transportation in animals *Transportation in plants *Excretion in animals *Excretion in plants
PERIODIC TEST I (12 June- 17 June) *Chapter 5 Life Processes-Nutrition , Respiration (5.1, 5.2, 5.3)			
July	Control and Coordination	6.1 ANIMALS – NERVOUS SYSTEM 6.2 COORDINATION IN PLANTS 6.3 HORMONES IN ANIMALS	*What happens in reflex action *Human Brain *How are nervous tissues protected *How does the nervous tissue cause action *Immediate response to stimulus *Movement due to growth *Endocrine hglands in human beings
PERIODIC TEST II (31 July- 5 August) *Chapter 5 Life Processes-Full			
August	How do organisms reproduce	7.1 DO ORGANISMS CREATE EXACT COPIES OF THEMSELVES? 7.2 MODES OF REPRODUCTION USED BY SINGLE ORGANISMS 7.3 SEXUAL REPRODUCTION	*The Importance of variations *Fission *Fragmentation *Regeneration *Budding *Vegetative propagation *Spore formation *Why the sexual mode of reproduction *Sexual reproduction in flowering plants
PORTFOLIO- Management of natural resources			

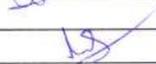
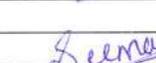
September	How do organisms reproduce (Cont...)	7.3 SEXUAL REPRODUCTION	*Reproduction in human beings *Male reproductive system *Female reproductive system *What happens when egg is not fertilised *Reproductive health		
	Heredity	8.1 ACCUMULATION OF VARIATION DURING REPRODUCTION 8.2 HEREDITY	*Inherited traits *Rules for Inheritance of traits -Mendel's contribution *How traits get expressed		
October	Heredity (Cont...)	8.2 HEREDITY	*Sex determination		
	Our Environment	13.1 ECOSYSTEM-WHAT ARE ITS COMPONENTS	*Food chain and food web		
PERIODIC TEST III (5 October-16 October) *Chapter 5 Life Processes *Chapter 6 Control and co ordination					
November	Our Environment (Cont....)	13.2 HOW DO OUR ACTIVITIES AFFECT THE ENVIRONMENT	*Ozone layer and how it is getting depleted *Managing the garbage we produce		
December	FIRST MODEL EXAMINATION (5 December -19 December)				
January	SECOND MODEL EXAMINATION (4 January -17 January)				
NAME OF THE SCHOOL	NAME OF TEACHER		SIGNATURE		
BHAVAN'S VIDYA MANDIR, ELAMAKKARA	JAYASREE NAIR				
BHAVAN'S VIDYA MANDIR, GIRINAGAR	DHANYA S VARRIER				
BHAVAN'S VIDYA MANDIR, EROOR	E.RAJESH MENON				
BHAVAN'S ADARSHA VIDYALAYA,	PARVATHY AMMAL K R				
BHAVAN'S VARUNA VIDYALAYA,	MAYA DEVI S				
BHAVAN'S MUNSHI VIDYASHRAM,	NIVYAMOL M C				
BHAVAN'S NEWSPRINT VIDYALAYA,	SEEMA C				

BHARATIYA VIDYA BHAVAN ,KOCHI

YEAR PLAN FOR THE ACADEMIC YEAR 2023-24

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
March -April	Life Processes	5.1 WHAT ARE LIFE PROCESSES? 5.2 NUTRITION 5.3 RESPIRATION	*Autotrophic Nutrition *Heterotrophic nutrition *How do organisms obtain their nutrition *Nutrition in human beings *Breakdown of glucose by various pathways *Human respiratory system
June	Life Processes	5.4 TRANSPORTION 5.5 EXCRETION	*Transportation in animals *Transportation in plants *Excretion in animals *Excretion in plants
PERIODIC TEST I (12 June- 17 June) *Chapter 5 Life Processes-Nutrition , Respiration (5.1, 5.2, 5.3)			
July	Control and Coordination	6.1 ANIMALS – NERVOUS SYSTEM 6.2 COORDINATION IN PLANTS 6.3 HORMONES IN ANIMALS	*What happens in reflex action *Human Brain *How are nervous tissues protected *How does the nervous tissue cause action *Immediate response to stimulus *Movement due to growth *Endocrine glands in human beings
PERIODIC TEST II (31 July- 5 August) *Chapter 5 Life Processes-Full *Chapter 6 Control and co ordination (6.1 Animals -Nervous system - 6.1.1, 6.1.2, 6.1.3, 6.1.4)			
August	How do organisms reproduce	7.1 DO ORGANISMS CREATE EXACT COPIES OF THEMSELVES? 7.2 MODES OF REPRODUCTION USED BY SINGLE ORGANISMS 7.3 SEXUAL REPRODUCTION	*The Importance of variations *Fission *Fragmentation *Regeneration *Budding *Vegetative propagation *Spore formation *Why the sexual mode of reproduction *Sexual reproduction in flowering plants
PORTFOLIO- Management of natural resources			

September	How do organisms reproduce (Cont...)	7.3 SEXUAL REPRODUCTION	*Reproduction in human beings *Male reproductive system *Female reproductive system *What happens when egg is not fertilised *Reproductive health		
	Heredity	8.1 ACCUMULATION OF VARIATION DURING REPRODUCTION 8.2 HEREDITY	*Inherited traits *Rules for Inheritance of traits -Mendel's contribution *How traits get expressed		
October	Heredity (Cont...)	8.2 HEREDITY	*Sex determination		
	Our Environment	13.1 ECOSYSTEM-WHAT ARE ITS COMPONENTS	*Food chain and food web		
PERIODIC TEST III (5 October-16 October) *Chapter 5 Life Processes *Chapter 6 Control and coordination *Chapter 7 How do organisms reproduce					
November	Our Environment (Cont....)	13.2 HOW DO OUR ACTIVITIES AFFECT THE ENVIRONMENT	*Ozone layer and how it is getting depleted *Managing the garbage we produce		
December		FIRST MODEL EXAMINATION (5 December -19 December) Full portions			
January		SECOND MODEL EXAMINATION (4 January -17 January) Full portions			

NAME OF THE SCHOOL	NAME OF TEACHER	SIGNATURE
BHAVAN'S VIDYA MANDIR, ELAMAKKARA	JAYASREE NAIR	
BHAVAN'S VIDYA MANDIR, GIRINAGAR	DHANYA S VARRIER	
BHAVAN'S VIDYA MANDIR, EROOR	E.RAJESH MENON	
BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD	PARVATHY AMMAL K R	
BHAVAN'S VARUNA VIDYALAYA, THRIKKAKARA	MAYA DEVI S	
BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM	NIVYAMOL M C	
BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR	SEEMA C	

BHARATIYA VIDYA BHAVAN ,KOCHI
SCHEME OF WORK FOR THE YEAR 2023-24

CLASS	STD X				
SUBJECT	BIOLOGY				
MONTH	MARCH -APRIL				
TOPIC	Life Processes				
COMPETENCIES	C-3.2 Analyses similarities and differences in the life processes associated with nutrition, reproduction, and transport of materials in organisms (transport of water and photosynthesis in plants; digestion, circulation, breathing and excretion in animals; absorption of nutrients in fungi)				
SUB-TOPIC	CONCEPTS	COMPETENCIES	LEARNING OUTCOMES	COGNITIVE LEVELS (as per Blooms Taxonomy)	ASSESSMENT FOR LEARNING
5.1 WHAT ARE LIFE PROCESSES? 5.2 NUTRITION 5.3 RESPIRATION	*Autotrophic nutrition	C-3.2	*Describes the process of absorption of CO ₂ & H ₂ O, in order to understand how autotrophs obtain substances necessary for nutrition. *Explain the process of conversion of CO ₂ & H ₂ O into carbohydrates, in order to understand how autotrophs obtain nutrition	Understand-Recall and Reproduction Analyze-Strategic thinking	a) MCQ b)Case study c)Assertion reason d)Diagram test
	*Heterotrophic nutrition		*Classifies different modes of heterotrophic nutrition *Differentiate different modes of heterotrophic nutrition with examples	Analyze-Skills and concepts Understand-Recall and reproduction	
	*How do organisms obtain their nutrition		*Explains different steps of nutrition in amoeba *Compares the mode of nutrition in amoeba and paramecium	Understand -Recall and Reproduction Analyze-Strategic thinking	
	*Nutrition in human beings		*Constructs labelled diagrams, flow charts concept map of digestive system. *state the role of enzymes in the process of digestion in human beings	Create-Extended thinking Understand-Recall and Reproduction	
	*Breakdown of glucose by various pathways		*Differentiate between process of aerobic and anaerobic respiration *Relate anaerobic respiration and muscle cramp during strenuous activities	Understand-Strategic thinking Apply-Skills and concepts	
	*Human respiratory system		* Constructs labelled diagrams, flow chart of human respiratory system and pathway. *Compares the transport of oxygen and carbon dioxide in blood	Create-Extended thinking Understand-Recall and Reproduction	

BHARATIYA VIDYA BHAVAN ,KOCHI
SCHEME OF WORK FOR THE YEAR 2023-24

CLASS	STD X				
SUBJECT	BIOLOGY				
MONTH	JUNE				
TOPIC	Life Processes				
COMPETENCIES	C-3.2 Analyses similarities and differences in the life processes associated with nutrition, reproduction, and transport of materials in organisms (transport of water and photosynthesis in plants; digestion, circulation, breathing and excretion in animals; absorption of nutrients in fungi)				
SUB-TOPIC	CONCEPTS	COMPETENCIES	LEARNING OUTCOMES	COGNITIVE LEVELS (as per Blooms Taxonomy)	ASSESSMENT FOR LEARNING
5.4 TRANSPORTATION	*Transportation in animals *Transportation in plants	C-3.2	* Recall the components of blood * Explain the different blood-vessels * Constructs labelled diagrams, flow charts,concept map of human heart and ciculation of blood * Evaluate the significance of four chambered heart in birds and mammals *Define the pocess of Translocation * Explain the transport of food and water	Remember-Recall and Reproduction Analyze-Skills and concepts Create-Extended thinking Evaluate-Extended leaning Understand-Recall and Reproduction Analyze-Strategic thinking	a) MCQ b)Daigram Test c)Assertion reason d)Case Study
5.5 EXCRETION	*Excretion in animals *Excretion in plants		* Recall the parts of Human excretory system * Sketch labelled diagrams of human excretory system and Nephron * Explanis the process of urine formation * List the different metods of excetion in plants	Remember-Recall and Reproduction Apply-Skills and concepts Analyze-Skills and concepts Understand-Recall and Reproduction	
PERIODIC TEST I (12 June- 17 June)					
*Chapter 5 Life Processes-Nutrition, Respiration (5.1, 5.2, 5.3)					

BHARATIYA VIDYA BHAVAN ,KOCHI
SCHEME OF WORK FOR THE YEAR 2023-24

CLASS	STD X				
SUBJECT	BIOLOGY				
MONTH	SEPTEMBER				
TOPIC	*How do organisms reproduce (Cont...) *Heredity				
COMPETENCIES	Analyses the similarities and differences in the life processes associated with reproduction Analyses patterns of inheritance of traits in terms of Mendel's laws				
SUB-TOPIC	CONCEPTS	COMPETENCIES	LEARNING OUTCOMES	COGNITIVE LEVELS (as per Blooms Taxonomy)	ASSESSMENT FOR LEARNING
7.3 SEXUAL REPRODUCTION	*Reproduction in human beings (a) Male reproductive system (b) Female reproductive system *What happens when egg is not fertilised	C-3.2	*Sketch labelled diagrams of male and female reproductive systems *Compare the structure and function of male and female reproductive system *Describes menstruation *Point out the events when egg is fertilised or not fertilised	Apply-Skills and concepts Understand -Recall and reproduction Analyze-strategic thinking	a) MCQ b) Diagram test/Diagram based questions c) Problem based question d) Think-Pair-Share e) Assertion reason
	*Reproductive health		*Identifies various contraceptive methods *Recommends the need of safe sex and family planning	Understand-Recall and reproduction Evaluate-Extended thinking	
8.1 ACCUMULATION OF VARIATION DURING REPRODUCTION 8.2 HEREDITY	*Variations during reproduction *Inherited traits	C-4.4	*Describes cellular mechanisms of heredity and variations *Analyses the importance of variation	Understand -Recall and reproduction Analyze-strategic thinking	
	*Rules for Inheritance of traits -Mendel's contribution		*Compares Mendel's laws of inheritance *Constructs monohybrid and dihybrid ratios	Understand -Recall and reproduction Create-Extended thinking	
			*Explains how genes control traits *Evaluates the expression of traits with examples	Understand -Recall and reproduction Evaluate Extended thinking	

BHARATIYA VIDYA BHAVAN ,KOCHI
SCHEME OF WORK FOR THE YEAR 2023-24

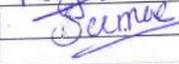
CLASS	STD X				
SUBJECT	BIOLOGY				
MONTH	NOVEMBER				
TOPIC	Our Environment (Cont....)				
COMPETENCIES	Analyses different levels of biological organisation from organisms to ecosystem and interactions that takeplace at each level				
SUB-TOPIC	CONCEPTS	COMPETENCIES	LEARNING OUTCOMES	COGNITIVE LEVELS (as per Blooms Taxonomy)	ASSESSMENT FOR LEARNING
13.2 HOW DO OUR ACTIVITIES AFFECT THE ENVIRONMENT	*Ozone layer and how it is getting depleted	C-4.3	*Describes the formation and depletion of ozone layer *Assess the effects of ozone depletion	Understand -Recall and reproduction Evaluate -Extended thinking	a)MCQ b)Case study
	*Managing the garbage we produce		*Apply knowledge of safe disposal of garbage *Evaluate the consequences of waste disposal	Apply-Skills and concepts Evaluate -Extended thinking	

FIRST MODEL EXAMINATION (5 December -19 December)
Full portions

December

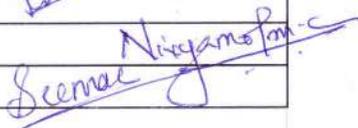
SECOND MODEL EXAMINATION (4 January -17 January)
Full portions

January

NAME OF THE SCHOOL	NAME OF TEACHER	SIGNATURE
BHAVAN'S VIDYA MANDIR, ELAMAKKARA	JAYASREE NAIR	
BHAVAN'S VIDYA MANDIR, GIRINAGAR	DHANYA S VARRIER	
BHAVAN'S VIDYA MANDIR, EROOR	E.RAJESH MENON	
BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD	PARVATHY AMMAL K R	
BHAVAN'S VARUNA VIDYALAYA, THRIKKAKARA	MAYA DEVI S	
BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM	NIVYAMOL M C	
BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR	SEEMA C	

BHARATIYA VIDYA BHAVAN ,KOCHI
SCHEME OF WORK FOR THE YEAR 2023-24

CLASS	STD X	
SUBJECT	BIOLOGY	
MONTH	NO:	PRACTICALS (LIST OF EXPERIMENTS)
JUNE /JULY	1	Preparing a temporary mount of a leaf peel to show stomata.
	2	Experimentally show that carbon dioxide is given out during respiration
AUGUST /SEPTEMBER	3	Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.
	4	Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean)

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BHAVAN'S VIDYA MANDIR, GIRINAGAR	DHANYA S VARRIER	
BHAVAN'S VIDYA MANDIR, EROOR	E.RAJESH MENON	
BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD	PARVATHY AMMAL K R	
BHAVAN'S VARUNA VIDYALAYA, THRIKKAKARA	MAYA DEVI S	
BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM	NIVYAMOL M C	
BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR	SEEMA C	

BIHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE ACADEMIC YEAR 2023-'24
STD X - CHEMISTRY

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH -APRIL	CHEMICAL REACTIONS AND EQUATIONS	EQUATIONS TYPES OF CHEMICAL REACTIONS	Writing a Chemical Equation Balanced Chemical Equations Combination Reaction Decomposition Reaction Displacement Reaction Double Displacement Reaction
JUNE	CHEMICAL REACTIONS AND EQUATIONS	TYPES OF CHEMICAL REACTIONS HAVE YOU OBSERVED THE EFFECTS OF OXIDATION REACTIONS IN EVERYDAY LIFE ?	Oxidation and reduction Corrosion Rancidity
	TEST -1 (12/06/2023 -17/06/2023) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS (Upto Double Displacement reactions (included) Page No 12)		
	ACIDS, BASES AND SALTS	UNDERSTANDING THE CHEMICAL PROPERTIES OF ACIDS AND BASES	Acids and bases in the laboratory. How do acids and bases react with metals ?
JULY	ACIDS,BASES AND SALTS	UNDERSTANDING THE CHEMICAL PROPERTIES OF ACIDS AND BASES. WHAT DO ALL ACIDS AND ALL BASES HAVE IN COMMON? HOW STRONG ARE ACID OR BASE SOLUTIONS? MORE ABOUT SALTS	How do metal carbonates and metal hydrogen carbonates react with acids ? How do acids and bases react with each other? Reaction of metallic oxide with acids. Reaction of non-metallic oxide with bases. What happens to an acid or a base in a water solution? Importance of pH in everyday life. Family of salts. pH of salts. Chemicals from common salt
	PERIODIC TEST - 2 (31/07/2023- 05/08/2023) CHEMICAL REACTIONS AND EQUATIONS		CHAPTER 1- CHAPTER 2-
		ACIDS,BASES AND SALTS (Upto pH (included)- Page No.28)	
AUGUST	ACIDS,BASES AND SALTS METALS AND NON-METALS	MORE ABOUT SALTS PHYSICAL PROPERTIES CHEMICAL PROPERTIES OF METALS HOW DO METALS AND NON-METALS REACT?	Chemicals from common salt Are the crystals of salts really dry? Metals Non-metals What happens when metals are burnt in air? What happens when metals react with water? What happens when metals react with acids? How do metals react with solutions of other metal salts? The reactivity series Properties of ionic compounds
SEPTEMBER	METALS AND NON-METALS CARBON AND ITS COMPOUNDS	OCCURRENCE OF METALS CORROSION BONDING IN CARBON- THE COVALENT BOND	Extraction of metals Enrichment of ores Extracting metals low in the activity series

CARBON AND ITS COMPOUNDS

BONDING IN CARBON- THE COVALENT BOND

EXTRACTING METALS LOW IN THE ACTIVITY SERIES
EXTRACTING METALS MIDDLE IN THE ACTIVITY SERIES
EXTRACTING METALS TOP IN THE ACTIVITY SERIES
REFINING OF METALS
PREVENTION OF CORROSION

REVISION

PERIODIC TEST -3 (05/10/2023- 16/10/2023)
CHAPTER 1 - CHEMICAL REACTIONS AND EQUATIONS
CHAPTER 2- ACIDS, BASES AND SALTS
CHAPTER 3- METALS AND NON-METALS

OCTOBER

CARBON AND ITS COMPOUNDS

VERSATILE NATURE OF CARBON
CHEMICAL PROPERTIES OF CARBON COMPOUNDS

Saturated and unsaturated carbon compounds
Chains, branches and rings
Will you be my friend?
Homologous series.
Nomenclature of carbon compounds.
Combustion
Oxidation
Addition reaction
Substitution reaction

NOVEMBER

CARBON AND ITS COMPOUNDS

SOME IMPORTANT CARBON COMPOUNDS- ETHANOL
AND ETHANOIC ACID
SOAPS AND DETERGENTS

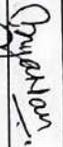
Properties of ethanol
Properties of ethanoic acid

DECEMBER

FIRST MODEL EXAMINATION - (05/12/2023 -19/12/2023)

JANUARY

SECOND MODEL EXAMINATION - (04/01/2024 -17/01/2024)

SL. NO	NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGNATURE
1	BHAVAN'S VIDYA MANDIR, ELAMAKKARA	BINDU T M	
2	BHAVAN'S VIDYA MANDIR, EROOR	POORNASREE K	
3	BHAVAN'S VIDYA MANDIR, GIRINAGAR	PRIYA NAIR	
4	BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD	SUJAYA A	
5	BHAVAN'S VARUNA VIDYALAYA, THRIKKAKARA	MEENA NAIR T N	
6	BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM	JUBY T J	
7	BHAVAN'S NEWSPRINT VIDYALAYA, VELLOORE	LEKHA VENU	

BHARATIYA VIDYA BHAVAN, KOCHI
MATHEMATICS - Std : X

YEAR PLAN FOR THE ACADEMIC YEAR 2023-24			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	REAL NUMBERS	Fundamental Theorem of Arithmetic Revisiting irrational numbers	Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$.
APRIL	POLYNOMIALS	Geometrical Meaning of the Zeroes of a Polynomial. Relationship between Zeroes and Coefficients of a Polynomial.	Zeroes of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.
JUNE	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	Graphical Method of Solution of a Pair of Linear Equations. Algebraic Methods of Solving a Pair of Linear Equations-Substitution Method, Elimination Method,	Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems
	Periodic Test 1- Chapters 1 and 2		
	QUADRATIC EQUATIONS	Quadratic Equations Solution of a Quadratic Equation by Factorisation Nature of Roots	0 , ($a \neq 0$). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.
	QUADRATIC EQUATIONS	Contd.....	

JULY	ARITHMETIC PROGRESSIONS	Arithmetic Progressions, nth Term of an AP, Sum of First n Terms of an AP	Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A.P. and their application in solving daily life problems
	TRIANGLES	Similar Figures Similarity of Triangles Criteria for Similarity of Triangles	triangles. 1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. 2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 5. (Motivate) If one angle of a triangle is equal to
Periodic Test 2- Chapters 1,2,3,4			
AUGUST	TRIANGLES	Contd.....	
	COORDINATE GEOMETRY	Distance Formula, Section Formula	linear equations. Distance formula. Section formula (internal division).
	STATISTICS	Mean of Grouped Data Mode of Grouped Data Median of Grouped Data	Mean, median and mode of grouped data (bimodal situation to be avoided).
	PROBABILITY	Probability — A Theoretical Approach	Classical definition of probability. Simple problems on finding the probability of an event.

SEPTEMBER	INTRODUCTION TO TRIGONOMETRY	Trigonometric Ratios Trigonometric Ratios of Some Specific Angles Trigonometric Identities	Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at 0° and 90° . Values of the trigonometric ratios of 30° , 45° and 60° . Relationships between the ratios. Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.
Periodic Test 3- Chapters 1,2,3,4,5,6,7,13			
OCTOBER	INTRODUCTION TO TRIGONOMETRY	Contd.....	
	SOME APPLICATIONS OF TRIGONOMETRY	Heights and Distances	Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30° , 45° , and 60°
	CIRCLES	Tangent to a Circle, Number of Tangents from a Point on a Circle.	Tangent to a circle at, point of contact 1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal
	CIRCLES	Contd.....	

NOVEMBER	AREAS RELATED TO CIRCLES	Areas of Sector and Segment of a Circle.	Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60° , 90° and 120° only.
	SURFACE AREAS AND VOLUMES	Surface Area of a Combination of Solids. Volume of a Combination of Solids.	Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.

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 BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR
 BHAVAN'S VIDYA MANDIR, GIRINAGAR
 BHAVAN'S MUNSHI VIDYASHRAM, TRIPUNITHURA

SREEKALA DEVI B
 MADHUSUDANAN K A
 PREETHA R
 MINI RAJAGOPAL
 RAJESH M N
 INDU S N
 SREEREKHA U