| | | YEAR PLAN FOR THE ACADEMIC YEAR STD IX - ENGLISH | R 2023 - 2024 | | |
|------------------------|----------------------------|---|---------------------------------------|---|--|
| MONTH | TOPIC | SUB-TOPICS | GRAMMAR | WRITING | |
| JUNE | BEEHIVE Unit 1 | The Fun They Had The Road Not Taken(Poem) | Deteminers | Descriptive Paragraph Writing | |
| (23 DAYS) | MOMENTS Unit 1 | The Lost Child | | (Person) | |
| JULY (22 DAYS) | BEEHIVE Unit 2 & Unit 3 | The Sound Of Music Evelyn Glennie Bismillah Khan (Reading only) Wind (Poem) The Little Girl Rain on The Roof (Poem) | Tenses | Descriptive Paragraph Writing (Event) | |
| | MOMENTS Unit 2 | The Adventures of Toto | | | |
| | C.III. 2 | PERIODIC TEST 1 (AUG 7 - AUG | 14) | | |
| AUGUST | BEEHIVE Unit 4 | A Truly Beautiful Mind The Lake Isle of Innisfree (Poem) | Modals | Descriptive Paragraph Writing (Situation) | |
| (19 DAYS) | MOMENTS Unit 3 | Iswaran The Story Teller | | | |
| SEPTEMBER (19 DAYS) | BEEHIVE Unit 5 | The Snake And The Mirror A Legend Of The Northland (Poem) | Subject- Verb Concord | Story Writing | |
| | MOMENTS Unit 4 | In The Kingdom Of Fools | | | |
| OCTOBER (21 DAYS) | BEEHIVE Unit 6 | My Childhood No Men Are Foreign (Poem) | Subject- Verb Concord | Diary Entry | |
| (21 DA13) | MOMENTS Unit 5 | The Happy Prince | | | |
| | | PERIODIC 2 (5 OCTOBER - 16 OCT | OBER) | | |
| NOVEMBER (24 DAYS) | BEEHIVE Unit 7 | Reach For The Top Santosh Yadav Maria Sharapova On Killing A Tree(Poem) | Reported Speech (Statements) | Paragraph Writing (Person, Event, Situation) | |
| | MOMENTS Unit 7 | The Last Leaf | | | |
| DECEMBER | BEEHIVE Unit 9 | If I Were You | Reported Speech (Questions, Commands, | Diary Entry | |
| (18 DAYS) | MOMENTS Unit 8 | A House Is Not A Home | Requests) | Diary Entry | |
| | | PERIODIC 3 (8 JANUARY - 15 JANU | JARY) | | |
| JANUARY (22 DAYS) | BEEHIVE Unit 8 | Kathmandu (Art Integrated ASL Project) A Slumber Did My Spirit Seal (Internal Assessment) | Revision | Revision | |
| (=======) | MOMENTS Unit 9 | The Beggar | | | |
| | | FINAL EXAMINATION (19 FEBRUARY - 28 | FEBRUARY) | | |
| FEBRUARY (23 DAYS) | | REVISION | | | |
| MARCH (16 DAYS) | | REVISION | | | |

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

CLASS - IX

| MONTH | TOPIC | SUB-TOPICS | CONCEPTS | EVALUATION |
|----------|--------------------------|-------------------------------------|--|--|
| ജൂൺ | തുടിതാളം തേടി | അമ്പാടിയിലേയ്ക്ക് | മലയാള സാഹിത്യത്തിന്റെ മഹനീയ പാരമ്പര്യം * മലയാളത്തിലെ പ്രധാന കാവ്യ പ്രസ്ഥാനങ്ങൾ *പ്രാചീന കവിത്രയം * ഭഗവാനും ഭക്തനും തമ്മിലുള്ള ആത്മബന്ധം .* രചനാ കാലത്തെസാമൂഹികാവസ്ഥ * ഭാഷാപ്രയോഗ രീതി.* ദുർജ്ജന സംസർഗ്ഗം സജ്ജനങ്ങളെ സ്വാധീനിക്കില്ല. | |
| | വ്യാകരണം | പ്രയോഗം മാറ്റുക, | വാക്യപരിവർത്തനം ഭാഷാഗ്രഹണശേഷി | |
| | രചന | അവധാരണം(പദ്യം) കത്ത് | സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന | |
| ജൂലൈ | പാരിന്റെ നൻമയ്ക്കത്രേ | രണ്ടു ടാക്സിക്കാർ | പരോപകാര പ്രദമായ ജീവിതമാണ് അഭികാമ്യം.* മറ്റുള്ളവരെ നിസ്വാർത്ഥമായി സഹായിക്കുന്ന വ്യക്തികൾ പ്രധാന കഥാപാത്രങ്ങളായി വരുന്ന സാഹിത്യ കൃതികൾ.* മഹത് വ്യക്തികളുടെ ജീവിത വീക്ഷണം, അനുഭവകഥകൾ എന്നിവയ്ക്ക് സമൂഹത്തിലുള്ള സ്വാധീനം. * | |
| | ഉപപാ0ം | തേജസ്വിയായ വാഗ്മി (പാഠങ്ങൾ 1-3) | ജീവ്ചരിത്രക്യതികളുടെ പ്രാധാന്യം . സ്വാമി വിവേകാനന്ദന്റെ ജനനവും ബാല്യകാലവും | |
| ആഗസ്റ്റ് | കുതുകമോടാലപിച്ചാ ലുo | വിശ്വം ദീപമയം | സുഖ് ദുഃഖ സമ്മിശ്രമായ ലോകത്ത് സമാധാനത്തോടെയും ശുഭാപ്തിവിശ്വാസത്തോടെയും ജീവിക്കേണ്ടതിന്റെ ആവശ്യകത. * മലയാള സാഹിത്യത്തിലെ പ്രബോധനപരമായ കവിതകൾ .* പ്രത്യാശാനിർഭരമായ ജീവിതം മഹത്തരമാണ്.* | P 1 1.അമ്പാടിയിലേക്ക് 2.രണ്ടു ടാക്സിക്കാർ പ്രയോഗം മാറ്റുക, അവധാരണം(പദ്യം) |

| | പൂക്കളൊക്കെയും വാക്കുകളാകുമ്പോൾ | വെള്ളച്ചാട്ടത്തിന്റെ ഇടിമുഴക്കം | യാത്രാവിവരണങ്ങളിലൂടെ പ്രകടമാകുന്ന സംസ്കാരവും, പ്രകൃതിയും. * മലയാള സഞ്ചാര സാഹിത്യ ചരിത്രം. * യാത്രാവിവരണത്തെ കൂടുതൽ അനുഭവവേദ്യമാക്കുന്ന വാങ്മയ ചിത്രങ്ങൾ. * വിസ്മയകരമായ പ്രകൃതി പ്രതിഭാസം. * കാവ്യാത്മകമായ ഭാഷ . * സഞ്ചാരി കണ്ട നാടിന്റെ പ്രകൃതി ഭംഗി, | |
|------------|------------------------------------|---------------------------------------|---|--|
| സെപ്റ്റംബർ | ഉപപാഠം | തേജസ്വിയായ വാഗ്മി (പാഠങ്ങൾ 4-6) | ചരിത്രം, പാരമ്പര്യം * സ്വാമി വിവേകാനന്ദന്റെ വിദ്യാഭ്യാസം ,ആദ്ധ്യാത്മിക ജീവിതത്തിലേക്കുള്ള പരിണാമഘട്ടം. | |
| | വ്യാകരണം | വിധി - നിഷേധം, അംഗ-അംഗി വാക്യങ്ങൾ, | ഭാഷാപ്രയോഗശേഷി | |
| | രചന | അവധാരണം(പദ്യം) ഉപന്യാസം | ഭാഷാഗ്രഹണശേഷി സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന | |
| ഒക്ടോബർ | പാരിന്റെ നൻമയ്ക്കത്രേ | കാളകൾ | *തൊഴിലിനോടുള്ള ആത്മ സമർപ്പണത്തിന്റെ പ്രാധാന്യം* ഏത് തൊഴിലും ശ്രേഷ്ടമാണ്. * അധ്വാനത്തിന്റെ മഹത്വം പ്രഘോഷിക്കുന്ന സാഹിത്യക്യതികൾ. * കവിതയിലൂടെ വ്യക്തമാകുന്ന സാമൂഹിക പശ്ചാത്തലം. * ജീവിതമാകുന്ന നാടകം. | P 2 1.വിശ്വം ദീപമയം 2.വെള്ളച്ചാട്ടത്തിന്റെ ഇടിമുഴക്കം *തേജസ്വിയായ വാഗ്മി(1-3) വാക്യപ്രയോഗം, വിധി - നിഷേധം, അംഗാംഗി വാക്യങ്ങൾ, അവധാരണം(പദ്യം), കത്ത് (ഔദ്യോഗികം) |
| | രചന | പത്രവാർത്ത ഉപന്യാസം | സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന | , , |
| നവംബർ | കുതുകമോടാലപിച്ചാ ലും | ആർഭാടത്തിൽ നിന്ന് ലാളിതൃത്തിലേക്ക് | ആധുനിക സമൂഹത്തിന്റെ ആർഭാടഭ്രമം. * ഇല്ലാത്തവർ ചെലവാക്കി മുടിയുന്നതിനെതിരെയും ആർഭാടത്തിനെതിരായും ആദ്യം ഉയർന്ന ശബ്ദം. * ആർഭാടവും ഉന്മാദം തന്നെ.* പരസ്യങ്ങളുടെ സ്വാധീനം. *സമകാലിക പ്രശ്നങ്ങൾ പരാമർശിക്കുന്ന ലേഖനങ്ങൾ. | |
| ഡിസംബർ | തേജസ്വിയായ വാശ്മി | തേജസ്വിയായ വാഗ്മി (പാഠങ്ങൾ 7 - 9) | മഹത് വ്യക്തികളുടെ ജീവചരിത്രവും ആദർശവും.* തത്താചിന്താധിഷ്ഠിതമായ പ്രവർത്തന മേഖലകൾ* | |

| ജനുവരി | പൂക്കളൊക്കെയും വാക്കുകളാകുമ്പോൾ | അതേ പ്രാർത്ഥന | പാരിസ്ഥിതികദർശനവും പരോപകാരത്തിലധിഷ്ഠിതമായ ജീവിതവും പ്രമേയമാകുന്ന കഥകൾ, കവിതകൾ * കവിയുടെ കാവ്യജീവിത സൂചനകൾ. * സവിശേഷ പ്രയോഗങ്ങൾ. * ചമത്കാരഭംഗി. * പരിസ്ഥിതിയും സാഹിത്യവും തമ്മിലുള്ള ബന്ധം . | P 3 1.ആർഭാടത്തിൽനിന്ന് ലാളിത്യത്തിലേക്ക് 2.കാളകൾ തേജസ്വിയായ വാഗ്മി (4-6) അംഗാംഗി വാക്യങ്ങൾ, വിധി - നിഷേധം,വാക്യശുദ്ധി,വാക്യ പ്രയോഗം, പത്രവാർത്ത,ഉപന്യാസം |
|-----------|------------------------------------|--------------------------|---|--|
| | വ്യാകരണം | വാക്യശുദ്ധി,വാക്യപ്രയോഗം | ഭാഷാപ്രയോഗശേഷി | |
| ഫെബ്രുവരി | ആവർത്തന പാഠങ്ങൾ | | | ANNUAL EXAM PORTIONS Topics - 1.കാളകൾ 2.അതേ പ്രാർത്ഥന 3.രണ്ടു ടാക്സിക്കാർ 4.ആർഭാടത്തിൽനിന്ന് ലാളിത്യത്തിലേക്ക് *തേജസ്ഥിയായ വാഗ്മി (5-9) അംഗാംഗിവാക്യങ്ങൾ, വാക്യശുദ്ധി,വാക്യപ്രയോഗം, പ്രയോഗം മാറ്റുക, വിധി- നിഷേധ വാക്യങ്ങൾ പത്രവാർത്ത, കത്ത്, ഉപന്യാസം ,അവധാരണം[പദ്യം] |
| | SL.NO | NAME OF THE TEACHERS- | SCHOOL | SIGNATURE |
| | 1 | BINDU S | BVM,GIRINAGAR | Do. |
| | 2 | SANDHYA T P | BVV,THRIKKAKARA | Tal- |
| [| 3 | EUBY JOSEPH | BVM,EROOR | him |
| [| 4 | SABITHA O S | BNV,VELLOOR | . Soble |
| | 5 | DHANYA GOPAL | BMV,THIRUVANKULAM | Ahol. |
| | 6 | RAKHI L | BVM,ELAMAKKARA | Jal |
| | 7 | MANJU ARAVIND | BAV,KAKKANAD | |

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN FOR THE ACADEMIC YEAR 2023-'24 STD IX - ARTIFICIAL INTELLIGENCE

| MONTH | TOPIC | SUB-TOPICS | CONCEPTS |
|-------|---|--|--|
| JUNE | PART B Unit 1- Introduction to Artificial Intelligence (AI) PART B Unit 4- Introduction to Python | AI Readiness Basics of Python | AI Preparedness AI Relate Purpose of AI • Data Types - integer, float, strings •Variables •Assignment operator •Type conversion •Arithmetic operators • Using print() and input() functions |
| JULY | PART B Unit 1- Introduction to Artificial Intelligence (AI) PART B Unit 4- Introduction to Python | Possibilities and Ethical Concerns of AI Operators & Flow of Control | Possibilities AI Ethics •Comparison Operators •Logical operators •Condition statements simple if ifelse |

| AUGUST | PART A Unit 1- Communication Skills 1 | Communication Skills | Verbal & Non-verbal Communication Writing skills Pronunciation Basics Greetings & Introduction Talking about Self Asking Questions |
|-----------|---|---------------------------|--|
| | PART A Unit 2-Self Management Skills-1 | Self Management Skills | Knowing Yourself Self Confidence Positive thinking Personal Hygiene Grooming |
| | PART B Unit 4 - Flow of Control in Python | condition statements | ifelifelse |
| | AUGUST 7 TO A | UGUST 14 -PERIODIC TEST 1 | • |
| | PART B Unit 2 - AI Project Cycle | Problem Scoping | 4Ws Canvas &Problem Statement Template |
| SEPTEMBER | PART A Unit 3- ICT Skills - 1 | ICT tools | ICT at workplace and home ICT applications •Parts of a computer and perIpherals •BasIc computer operatIons •PerformIng basIc file operatIons CommunicatIon and networkIng — basics of Internet — Internet browsIng CommunicatIon and networkIng — introductIon to e-mail,creatIng an e-mail account ,writIng an e-mail,receIvIng and replyIng to e-mails |

| | PART B Unit 4 - Flow of Control in Python | Iteration using FOR statement | for statement range() |
|----------|---|--------------------------------------|--|
| | PART B Unit 2 - AI Project Cycle | Data Acquisition Data Exploration | Definition Data Features Acquiring data from reliable sources System Maps Data Visualization Sketchy Graphs |
| OCTOBER | PART A UNIT 4-Entrepreneurial skills | Entrepreneurial skills - I | What is entrepreneurship? Role of entrepreneurship Qualities of a successful entrepreneur Distinguishing characteristics of entrepreneurship and wage employment |
| | PART B Unit 4 - Flow of Control in Python | Iteration statement | While Statement |
| | OCTOBER 5 TO O | CTOBER 16 PERIODIC TEST 2 | |
| | PART B Unit 2 - AI Project Cycle | Modelling | AI, ML & DL Rule based approach Decision Tree |
| NOVEMBER | PART B Unit 4 - Python Lists | Creating, Updating, & Slicing a list | Simple operations using Lists- Indexing, Adding, Removing, Slicing a list |
| DECEMBER | PART B Unit 3 - Neural Network | Neural Network | Definition Features of Neural Network Neural Networks Vs Human Nervous System |

| | PART B Unit 4 - Python Lists | Operations using list methods | List Methods- append,extend,insert,remove,pop, clear, index,count,sort,reverse,copy | | | |
|--|---------------------------------------|-------------------------------|---|--|--|--|
| | JANUARY 8 TO JANUARY 15 PERIOC TEST 3 | | | | | |
| JANUARY | PART A Unit 5 - Green Skills 1 | Green Skills - I | Society and Environment | | | |
| FEBRUARY REVISION & PRACTICAL ASSESSMENT | | | | | | |
| FEBRUARY 19 TO FEBRUARY 28 FINAL EXAM | | | | | | |

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN -2023-2024

SUBJECT: Computer Applications

STD: IX

| MONTH | TOPIC | SUB TOPICS | CONCEPTS |
|-----------|--|---|---|
| | | Computer Systems: Hardware :CPU, memory, storage devices and I/O devices Software : Types of software | Computer Systems: Characteristics of a computer, components of a computer system-CPU (CU, ALU), Memory, storage devices and I/O devices. Memory: Primary (RAM & ROM) and Secondary Memory Storage Devices: Hard disk CD ROM DVD PEN/FLASH DRIVE, Memory Stick I/O Devices: Keyboard, Mouse, Monitor, Printer, Scanner, Web Camera |
| JUNE | Basics of Information Technology | | Types of Software: System Software(Operating System), Application Software, Mobile Application Operating system: device drivers |
| JULY | Office Tools(Word Processor) | Basics of Information Technology (cont.) Introduction to a word processor, creating and saving a document, editing and formatting a document | Word processor - text style (B, I, U) font type, size, changing colour, alignment of text. Formatting paragraphs with line and /or paragraph spacing, adding headers and footers, numbering pages using grammar and spell-check utilities, using subscript and superscript, insert symbols, use print preview and print a document |
| AUGUST | Office Tools(Word Processor - 2) | (P1 - August 7 to August 14) 80 mins Inserting images and tables Lists, Bulletted & Numbered list Inserting graphics Find & Replace | Periodic Test 1 Insert Pictures: Change the page setting ,add bullets and numbering, borders and shading Inserting tables-inserting , deleting rows and columns, merging and splitting cells Use autoformat, Track changes ,Review comments, Use of drawing tools, Shapes and Mathematical symbols Find & Replace |
| SEPTEMBER | Computer networking Multimedia Office Tools(Spreadsheet-1) | Types of networks, Types of communication, Cloud computing, Multimedia, Social Networking Spreadsheet basics, Editing cell contents Commands for worksheets | Computer Networking: Types of Networks: PAN, LAN, MAN, WAN, Wired/Wireless Communication, Wi-Fi, Bluetooth, cloud computers(private/public) Multimedia: images, audio, video, animation Introduction to spread sheet—concept of worksheet and work book ,creating and saving a worksheet working with a spread sheet-entering numbers, text ,date/time, series using auto fill, editing and formatting a worksheet including changing colours, size, font, alignment of text, inserting/deleting cells, rows/columns, |

| OCTOBER | Office Tools(Spreadsheet-2) | (P2 - October 5 to October 16) Office Tools(Spreadsheet-1) cont Office Tools(Spreadsheet-2) | Periodic Test 2 formula -entering a formula in a cell, using operators(+,-,*,/)in a formulae, refer to cell and printing a worksheet. Embedding charts of various types: line, pie, scatter, bar and area in a worksheet |
|----------|-----------------------------|--|---|
| NOVEMBER | Cyber-safety | Cyber safety, Identity protection using Internet Proper usage of passwords Confidentiality of information Online safety Cyber crimes | Safely browsing the web and using social networks :identity protection, proper usage of password, privacy, Confidentiality of information, cyber stalking, reporting cyber crimes Safely accessing Websites: Viruses and Malware, Adware |
| DECEMBER | Office Tools(Spreadsheet-2) | Office Tools(Spreadsheet-2) cont | Use simple statistical functions ,Sum(),Average(),Max(),Min(), If() (without compound statements). |
| JANUARY | Office Tools(Presentation) | (P3 - January 8 to January 15) Office Tools(Presentation) | Understanding the concept of slide shows, basic elements of a slide, different types of slide layouts, creating and saving a presentation, different views of a slide, Normal view, slide sorter view, slide show view, editing and formatting a slide: adding titles, sub titles, text, background, watermark, Headers and footers, numbering slides, inserting pictures from files animating pictures and text with sound effect, Rehearse timings. |
| FEBRUARY | | Revision (Practical Examination- February 8 Final Examination - February 19 to February 28) | |

| | | DYA BHAVAN, KOCHI KENDRA | |
|-----------|---|--|-----------|
| | | AR PLAN (2023-2024) | |
| | | STANDARD IX | |
| MONTH | TINITE | PHYSICS | |
| MONTH | UNIT | TOPIC | |
| June | 7 | Motion. | |
| July | 7 | Motion (Contd), Force and laws of motion | |
| | 8 | Force and laws of motion | |
| August | | PERIODIC TEST –I (Aug 7 to 14) -CHAPTER 7(upto 7.6 uniform circular motion) | |
| | 8 | Force and laws of motion (contd) | |
| September | 8 | Force and laws of motion (Contd) | |
| | 9 | Gravitation. | |
| October | 9 | PERIODIC TEST –II[Oct 5 to 16] -CHAPTER 7 and 8 Gravitation (Contd) | |
| November | 9 | Gravitation (contd) | |
| | 10 | · · · · · · · · · · · · · · · · · · · | |
| December | 10 | | |
| December | 10 | Work & Energy (Contd) | |
| January | 11 | Sound | |
| | | PERIODIC TEST –III[Jan 8 to 15] -CHAPTER 7 (only 7.5- Eqns of motion and numericals), 8 (8.2 and 8.3) and 9 | |
| February | | FINAL EXAMINATION (Chap 7, 8, 9, 10 and 11) (Feb 19 - Feb 28) | |
| | | LIST OF EXPERIMENTS | |
| 1 | Verification of the laws of reflection | | |
| 2 | | olid (denser than water) by using a spring balance and a measuring cylinder. | |
| 3 | Establishing the relation between the loss in weight of a solid when fully immersed in a) Tap water b) Strong salty water with the weight of water displaced by it by taking at least two different solids. | | |
| 4 | | propagated through a stretched string/ slinky. | |
| | | | |
| | NAME OF THE SCHOOL | NAME OF THE TEACHER | SIGNATURE |
| | BVM, ELAMAKKARA | CISMI POULOSE | |
| | BVM, EROOR | KALA S PILLAI | |
| | BMV, THIRUVAMKULAM | INDIRA DEVI K K | |
| | BNV, VELLOOR | PREETHA G | |

BHARATIYA VIDYA BHAVAN ,KOCHI KENDRA

| YEAR PLAN 2023-2024 | | | | | |
|---------------------|----------------------------------|---|--|--|--|
| STD:IX | | | SUBJECT:SOCIAL SCIENCE | | |
| MONTH | TOPIC | SUB-TOPICS | CONCEPTS | | |
| JUNE | 1.INDIA -SIZE AND LOCATION(G) | * Location *Size * India and the World *India's Neighbours | *Physical extent of India *Adaption of standard time for India *India's position in the world | | |
| | 1.FRENCH REVOLUTION(H) | *French Society During the Late Eighteenth Century * The Outbreak of the Revolution *France Abolishes Monarchy and Becomes a Republic *Conclusion (Did women have a revolution ?(debate) ,The Abolition of Slavery, The Revolution and Everyday Life, all boxes page no.12 and 13 — Only for discussion) | *Condition of French society in 18 th century, *France abolished monarchy and established democracy through revolution. *Reforms introduced by Napoleon Bonaparte. | | |

| | 1.STORY OF VILLAGE PALAMPUR(E) (To be assessed as part of Periodic Assessment only) | *Introduction *Organization of Production *Land is fixed * Is there a way one can grow more from the same land? *Will the land sustain (How is land distributed between the farmers of Palampur? Who will provide the labour? The capital needed in farming Sale of Surplus Farm Products Non-Farm Activities in Palampur - Only for discussion) | *Importance of agriculture. *Production activities need various types of resources. * Organisation of production. |
|---------------|--|--|--|
| | 1.WHAT IS DEMOCRACY? WHY DEMOCRACY(D) | *1.1What is Democracy? *1.2 Features of Democracy * 1.3 Why Democracy? (Broader Meanings of Democracy – Only for discussion) | *Definition of democracy *Features of democracy * Merits and demerits of democracy |
| JUNE /JULY | 2. PHYSICAL FEATURES OF INDIA(G) | *Physical Features of India * Major Physiographic Divisions * Himalayan Mountains, *Northern Plains, * Peninsular Plateau, * Indian Desert, * Coastal Plains, *Islands | *Various physical features of India. *The geological process in the formation of diverse physical features in India |

| JULY | 3. DRAINAGE(G) | * Drainage Systems in India *The Himalayan * Rivers - Ganga and Brahmaputra River System * The Peninsular Rivers - Narmada Basin, Tapti Basin, Godavari Basin, Mahanadi Basin, Krishna Basin, Kaveri Basin (Lakes , Role of Rivers in the Economy, River Pollution - Activity only.) | *Himalayan rivers and peninsular rivers , *Areas where it drains. |
|------|----------------------------|--|---|
| | 2.PEOPLE AS RESOURCE(E) | *Overview * Economic Activities by Men and Women *Quality of Population * Unemployment | *People as resource - Population as an asset for the economy rather than a liability. *Inputs like education and health helped in making people an asset for the economy. *Economic activities undertaken in the three sectors of the economy. *Problem associated with unemployment. |

| | 2.CONSTITUTIONAL DESIGN.(D) | *Why do we need a Constitution? (2.2) * Making of the Indian Constitution (2.3) * Philosophy of the constitution. * Institutional design (Democratic constitution in South Africa (2.1), Guiding Values of the Indian Constitution (2.4) – | *Constitution - Certain basic rules that the citizen and the government have to follow. *Making of Indian constitution and its foundational values. |
|--------|---|--|---|
| | | Group discussion) | |
| | P1 AUGUST 7 -14 | *A Turbulent Time: | |
| AUGUST | 2.SOCIALISM IN EUROPE AND THE RUSSIAN REVOLUTION(H) | *A Turbulent Time: The 1905 Revolution (2.4) *The first world war and the Russian Empire (2.5) * The February Revolution in Petrograd (3) *The Revolution of October 1917(3.2) *Stalinism and Collectivization.(4.3) (The Age of Social Change, 1.1, 1.2, 1.3,& 1.4,The Russian Revolution 1914 (2.1), Economy and society (2.2), | *Russian revolution - Revolution of workers and peasants. *Abdication of monarch. *Establishment of socialism. *Formation of communist party. |

| SEPTEMBER | 4.CLIMATE(G) | *Climate:Introduction * Climatic Controls * Factors affecting India's climate - Latitude, Altitude, Pressure and Winds - *Distribution of Rainfall *Monsoon as a Unifying Bond (The Seasons- Cold Weather Season, Hot Weather Season, Advancing Monsoon,Retreating /Post Monsoons -Only for discussion - Portfolio activity can be assigned from this topic) | *The atmospheric conditions that prevail over our country. *Monsoon * Climate and weather. *Major climatic controls of any place. *Factors affecting India's climate. *Monsoon winds bind the country by providing water. |
|-----------|----------------------------|--|---|
| | 3.ELECTORAL POLITICS(D) | *(By-election, Electoral constituencies, Reserved Constituencies, voters list,Party ticket, EVM, EPIC, Election Manifesto,Ballet box only terms to be taught) * 3.3 What makes elections in India democratic? *Independent election commission *Challenges to free and fair elections. (Why Elections? — Assembly election in Haryana, Why do we need elections? , Is it good to have political competition? Popular Participation Acceptance of election outcome | *Importance of elections in a democracy. *Stages of election from fixing different constituencies |

| 4.FOREST SOCIETY AND COLONIALISM (H) & 5.NATURAL VEGETATION AND WILD LIFE (G) P2 OCTOBER 5 -16 | INTERDISCIPLINA RY PROJECT | |
|--|--|---|
| 6.POPULATION(G) | *Population *Population size and distribution - India's Population Size and Distribution by Numbers India's Population Distribution by Density *Population growth and processes of population change Population Growth Processes of Population Change/Growth Adolescent Population National Population Policy. | *Population is the pivotal element in Social Studies. *People are important to develop the economy and society. *People are the nations most valuable resource. |

| OCTOBER | 3.NAZISM AND THE RISE OF HITLER (H) | *Birth of the Weimar Republic - Introduction , * 1.3 The years of depression * Hitler's Rise to Power 2.1 The destruction of democracy 2.2 Reconstruction * The Nazi Worldview 3.1 Establishment of Racial State 3.2 The Racial Utopia * Youth in Nazi Germany 4.1 The Nazi cult of Motherhood 4.2 The Art of Propaganda 5.1 Knowledge about | *Treaty of Versailles and its impact on germany. *Reasons led to the rise and fall of Hitler. *Hitler and the Second World War Nazism in shaping the politics of modern world. |
|---------|--|--|--|
|---------|--|--|--|

| NOVEMBER | 4.WORKING OF INSTITUTIONS (D) | *Working of Institutions: * Parliament - Why do we need a Parliament?, Two Houses of Parliament * Political Executive ,Political and Permanent Executive, Prime Minister and Council of Ministers, Powers of the Prime Minister, The President, The Judiciary (Glossary to be taught) (How is major policy decision taken? - A Government order, The decision makers, Need for political institutions and all boxes | *Role played by legislature, executive and judiciary in taking major decisions. *Legislature, executive and judiciary together carry on the work of government. |
|----------|----------------------------------|---|--|
| | 3.POVERTY AS A CHALLENGE (E) | * Overview * Two typical cases of Poverty *Poverty as seen by Social Scientists * Poverty Line * Poverty Estimates * Vulnerable Groups *Interstate Disparities *Global Poverty Scenario- * Causes of Poverty * Anti-Poverty measures * The Challenges Ahead | *Poverty - Multi dimensional problem. *Poverty scenario in India and the world. *Causes of poverty as well as the anti poverty measures taken by the government. |

| NOV/ DEC | 5.PASTORALISM AND THE MODERN WORLD(H) (To be assessed as part of Periodic Assessment only) | pg .no. 98 &99(To be assessed as part of Periodic Assessment only) | |
|-------------|---|--|--|
| DECEMBER | 5.DEMOCRATIC RIGHTS (D) | definition to be taught) * Rights in the Indian constitution- Right to equality, Right to freedom, Right against exploitation, Right to freedom of religion, Cultural and Educational rights * How can we secure these rights? * NHRC(box) (Life without rights, Prison in Guantanamo Bay, Citizen's rights in Saudi Arabia, Ethnic Massacre in Kosovo,Rights in democracy,Why do we need rights in a democracy, Expanding scope | *Meaning of rights and its need. *Fundamental rights in the Indian constitution. *Fundamental rights in the constitution are important because they are enforceable. |
| | P3 JANUARY 8-15 | | |

| *Food Security in India: *Overview *What is Food *All persons have the capace buy food of acceptable quale *There is no barrier on access food. *What is Buffer Stock? *What is the Public Distribution System? *Current Status of *Food Security in India *There is no barrier on access food. *Carefully designed food seed security. *Role of cooperative in food security. |
|--|
|--|

BHARATIYA VIDYA BHAVAN ,KOCHI KENDRA YEAR PLAN FOR THE ACADEMIC YEAR 2023-24 STD IX HINDI MONTH **TOPIC SUB-TOPICS CONCEPTS** मनुष्य के जीवन में पोशाक का महत्त्व । दुःख का अधिकार जून गद्य | समाज में फैले गरीब लोगों की मानसिक और आर्थिक स्थिति को उजागर करना । पहला पद :- इसमें दास्य भाव की भक्ति का वर्णन हैं । कवि अपने को स्वामी के चरणों का दास मानता हैं। पद्य रैदास |दूसरा पद :- ईश्वर समदर्शी है। 'छुआछूत एक भयानक समस्या है '। गिल्लू उपपाठ अनुस्वार ,अनुनासिक व्याकरण अनौपचारिक पत्र - बधाई पत्र,निमंत्रण पत्र पत्र एवेरेस्ट:मेरी शिखर यात्रा जिंदगी में कुछ पाने के लिए संघर्ष करना है | 'मन के हारे हार है,मन के जीते जीत'। जुलाई गद्य अग्नि पथ जिंदगी का दूसरा नाम संघर्ष है । संघर्षों को मुस्कान के साथ सामना करना है । पद्य उपसर्ग और प्रत्यय ,अपठित गद्यांश व्याकरण अन्च्छेद लेखन रचना PERIODIC TEST -I अगस्त अतिथि देवों भवः। तुम कब जाओगे, अतिथि गद्य सामलोचानात्मक दृष्टिकोण का विकास । आत्मिक गुणों का विकास । रहीम - दोहे पद्य विचार-विश्लेषण की क्षमता का विकास । चित्र वर्णन व्याकरण विराम -चिहन व्याकरण

| | पत्र | अनौपचारिक पत्र (धन्यवाद पत्र) | |
|--------|-----------------|--|--|
| | | | • |
| सितंबर | गद्य | कीचड़ का काव्य | मिट्टी के प्रति श्रद्धा और सौन्दर्य बोध जगाना । |
| T(T) | गत्य | | प्रकृति से जुड़ाव व संवेदना जगाना । |
| | उपपाठ | स्मृति | बाल-सुलभ शरारतों का वर्णन । |
| | व्याकरण | स्वर संधि | |
| | | | |
| अक्तबर | PERIODIC TEST-2 | | |
| | पद्य | गीत -अगीत | प्रकृति की सुंदरता के साथ-साथ जीव-जंतुओं के प्रति प्रेम। |
| | ` | 100 00 00 | मानवीव राग और प्रेम भाव का सजीव चित्रण । |
| | व्याकरण | अपठित गद्यांश | |
| | 1 | | |
| नवंबर | गद्य | वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन | तार्किक व आलोचनात्मक दृष्टि का विकास ,प्राकृतिक संसाधनों के |
| -144 | | Transfer again to again and the trees | सदुपयोग हेतु प्रेरित करना । |
| | | | त्रिपुरा के भौगोलिक स्थिति , संस्कृति ,संगीत ,घरेलू उद्योग -धंधे ,आधुनिक |
| | उपपाठ | कल्लू कुम्हार की उनाकोटी | कृषि परंपरा ,धार्मिक रीति-रिवाज़ और मान्यताओं का वर्णन । |
| दिसंबर | गद्य | शुक्रतारे के समान | ईमानदारी ,लगन,सत्यनिष्ठा आदि शाश्वत गुणों का विकास । |
| 193193 | 1904 | Sacret at Clotton | |
| | | | पुस्तकालय से लाभ । |
| | उपपाठ | मेरा छोटा -सा निजी पुस्तकालय | पुस्तक - सच्चे मित्र है । |
| | | | बचपन से ही पुस्तक पढने की |
| | | | शौक तथा लाइब्रेरी बनाने की प्रेरणा |
| जनवरी | PERIODIC TEST-3 | | |
| | | नए इलाके में | समय के साथ चले ,जीवन में कुछ भी स्थाई नहीं है। |
| | पद्य | | |
| | اس | खुशब् रचते हैं हाथ | गरीब मजद्रों की दयनीय दशा की ओर ध्यान आकर्षित करना और |
| | | | उनके उद्धार के |
| | | | पित चेतना जागत कराना । |

| | पुनरावृत्ति | | |
|-------|------------------------------|---------------|--|
| फरवरी | ट्याकरण FINAL EXAMINATION | विराम - चिह्न | |

| TEACHER-IN CHARGE | NAME OF THE SCHOOL | SIGNATURE |
|-------------------|---|-----------|
| RAMYA.S | BHAVAN'S VIDYA MANDIR, ELAMAKKARA | |
| SUJA SUDHAKARAN | BHAVAN'S VIDYA MANDIR, GIRINAGAR | |
| MAYAMOL R | BHAVAN'S VIDYA MANDIR,EROOR | |
| MAHESHKUMAR K | BHAVAN'S ADARSHA VIDYALAYA,KAKKANAD | |
| SMITHA JAYARAJ | BHAVAN'S VARUNA VIDYALAYA ,THRIKKAKARA | |
| MINI N | BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM | |
| JAYASREE KR | BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR | |

BHARATIYA VIDYA BHAVAN, KOCHI

YEAR PLAN FOR THE ACADEMIC YEAR 2023-24

SANSKRIT CLASS IX

| MONTH | TOPIC | SUB-TOPICS | CONCEPTS |
|--------|-------------|---|---|
| JUNE | पद्यम्, कथा | 1.भारतीवसन्तिगीतिः . 2.स्वर्णकाकः स्वरसन्धिः- दीर्घः, गुणः,वृद्धि,यण्, अयादि | आधुनिक-संस्कृतकाव्यान् अधिकृत्य ज्ञानसंपादनम् । स्वजीवने क्षमा, मित्रता, स्नेहम् इत्यादि मूल्यानाम् धारणम्। |
| JULY | नाट्यांशः | 3.गोदोहनम् अकारान्तः- बालकवत्, इकारान्तः-कविवत्, उकारान्त-साधुवत्, ऋकारान्तः -पितृवत् आकारान्त- लतावत्,ईकारान्त- नदीवत् , ऋकारान्तः-मातृवत् शब्दाः धातुरूपाणि पठ् गम्, वद्,भू ,क्रीड्,नी, दश,शक्,जा अस्,कृ,दा,क्री,श्रु,पा(पिब्),(पञ्चलकारेषु)। | पाठभागस्य पठनानन्तरं तस्य स्वाधीनतया स्वकर्मणि यथाकाले करणीयानि इत्यवबोधः। व्याकरणज्ञानम्। धातुरूपपरिचयः। |
| AUGUST | पद्यम् | 5.सूक्तिमौक्तिकम् द्वाविंशति उपसर्गाः प्रत्ययाः- क्त, क्त्वा, तुमुन्, ल्यप्, क्तवतु, शत्र शानग | सूक्तीनां ज्ञानम् सुस्वरगायनम् उपसर्गचयनम् प्रत्ययानां प्रयोगज्ञानम् |

PERIODIC TEST 1 - AUGUST 7th-14th- LESSONS-1,2,3, AND GRAMMAR (अपठित-अवबोधनं, रचानात्मकं कार्यं,अनुप्रयुक्त-व्याकरणम्,पठितावबोधनं)

| | | 6.भ्रान्तो बालः (उपपदविभक्तिः) | |
|----------------|----------------------------|--|--|
| | | द्वितीया- उभयतः,धिक्,परितः,समया, | |
| | | निकषा, प्रति, विना तृतीया-सह,साकं, | |
| | | समं,साधं,विना,अलं,सदृश,हीन चतुर्थी- | |
| | | रुच्,दा (यच्छ),नमः,कुप्,स्वस्ति | |
| | | "संख्या -1- 100 1-4 त्रिषु लिङ्गेषु | |
| SEPTEMBER | कथा | केवलं प्रथमा विभक्तौ | कथास्वादनम् । गुणपाठावबोधः |
| | | व्यञ्जनसन्धि:-जश्त्वसन्धि: 'म्' स्थाने | |
| | | अनुस्वारः विसर्गसन्धिः उत्वम्, रत्वम् | |
| | | सर्वनामशब्दाः- अस्मद् ,युष्मद्, तत् , | सर्वनामशब्दानां प्रयोगज्ञानम्। |
| OCTOBER | व्याकरणम् | इदम्, किम् शब्दाः(त्रिषु लिङ्गेषु) | व्याकरणकार्याणां वाक्ये प्रयोगकौशलम्। |
| PERIODIC TE | ST 2 - OCTOBER 5TH- 16TH - | LESSONS-3,5,6 AND GRAMMAR (अपठि | त-अवबोधनम्, रचानात्मकं कार्यम्,अनुप्रयुक्त- |
| व्याकरणम्,र्पा | ठेतावबोधनम्) | | |
| | नाट्यांशः , पद्यम् | 9.सिकतासेतुः , 10.जटायोः शौर्यम् | |
| | , , | पञ्चमी -विना, बहिः, भी, | |
| | | र | उद्यमेन सिद्ध्यन्ति कार्याणि । वीरता । |
| 1101/514050 | | क | अवसरोचित प्रवर्तनम् । |
| NOVEMBER | | ` | जपत्तरा। पत् अपतगम् । |
| | | 11. पर्यावरणम् हलन्ताः -राजन्, | |
| DECEMBER | गरगम | भवत्,विद्वस्,गुणिन् | प्रकृतिरक्षा । पर्यावरणसंरक्षणम् । शब्दज्ञानम् । |
| | प्राप्त प्राप | 1014(1,144441,411,101 | त्रप्रशारक्षा प्रसायर्गारारक्षाणम् राष्ट्रप्रशानम् |

| | | 1 | T |
|--------------|------------------------------|---|--|
| | नाट्यांशः | 12.वाङ्मनः प्राणस्वरूपम् | |
| | | अव्ययानि - स्थानबोधकानि अत्र,तत्र, | |
| | | अन्यत्र,सर्वत्र,यत्र, एकत्र, | |
| | | उभयत्र कालबोधकानि- यदा, तदा,सर्वदा, | |
| | | एकदा, पुरा, अधुना, अद्य,श्वः,हयः। | |
| | | प्रश्नबोधकानि -िकं, कुत्र, कति,कदा,कुतः, | वचसः मनसः प्राणस्य च सूक्ष्मज्ञानम् |
| JANUARY | | कथम्,किमर्थं । अन्यानि- च, अपि,यदि- | वाक्यरचनायां अव्ययानां प्रयोगः |
| PERIODIC " | TEST 3 - JANUARY 8th- 15th - | LESSONS- 9,10,11- GRAMMAR (अपठित | - 1-अवबोधनम्, रचानात्मकं कार्यम्,अनुप्रयुक्त- |
| | | व्याकरणम्,पठितावबोधनम्) | |
| | | 3 | |
| FEBRUARY | FINAL EXAMINATION -FEBR | RUARY 19th -28th,सर्वे पाठाः, सर्वाणि व्याव | करणकार्याणि , CBSE परीक्षा अनुसारं पाठभागाः |
| Note: Questi | on pattern for each examinat | tion should be according to CBSE. | |
| | BVM ELAMAKKARA | | |
| | BVM GIRINAGAR | | |
| | BVM EROOR | | |
| | BAV KAKKANAD | | |
| | BVV THRIKKAKARA | | |
| | BMV TRIPUNITHURA | | |
| | | | |

BHARATIYA VIDYA BHAVAN ,KOCHI

| | YEAR | PLAN FOR THE ACADEMIC | YEAR 2023-24 | |
|---------|------------------------------------|---|--|--|
| CLASS | IX | | | |
| SUBJECT | | BIOLOG | GY | |
| MONTH | TOPIC | SUB-TOPICS | CONCEPTS | |
| | | 5.1What are living organisms made up of? | All living organisms are made up of one or more cells, which are considered the fundamental units of life. | |
| JUNE | 5 -THE FUNDAMENTAL UNIT OF LIFE | 5.2 What is a cell made up of? What is the structural organisation of a cell? | Even unicellular organisms are complex! Inside each cell, atoms make up molecules, which make up cell organelles and structures. In multicellular organisms, similar cells form tissues. | |
| | | 5.2.1 Plasma membrane or cell membrane | The membrane found in all cells that separates the interior of the cell from the outside environment. | |
| | * | 5.2.2 Cell wall | Cell wall is the outermost covering of a plant cell. It is tough and flexible (sometimes rigid) layer that provide structural support and protection to the cell. | |
| | | 5.2.3 Nucleus | The nucleus is a small, round and membrane-bound structure found in cells. And the fluid inside the nucleus surrounded by the nuclear membrane is called nucleoplasm. It controls cell's growth and reproduction as it contains cell's hereditary information. It's covered by dual layer called a nuclear membrane. | |

| | | 5.2.4 Cytoplasm | Cytoplasm is the gelatinous liquid that fills the inside of a cell embedded with cell organelles. |
|------|--------------------------------------|---------------------------------|---|
| | e 1 | 5.2.5 Cell organelles | An organelle is a specialised part of the cellthat serves a specific purpose within the cell. there are many organelles present within a cell and they also vary depending on what kind of cell, whether it be a plant or animal. an organelle is a specialised part of the cell. |
| | * | 5.2.5 (i) Endoplasmic reticulum | Endoplasmic Reticulum is a complex network of tubular membranes exclusively present in the cytoplasm of the eukaryotic cell. |
| JULY | THE FUNDAMENTAL UNIT OF LIFE (contd) | 5.2.5 (ii) Golgi apparatus | A stack of small flat sacs formed by membranes inside the cell's cytoplasm is called golgi apparatus. |
| | | 5.2.5 (iii) Lysosomes | Lysosome is a membrane-bound cell organelle that contains digestive enzymes. |
| | | 5.2.5 (iv) Mitochondria | Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. |
| | | 5.2.5 (v) Plastids | Plastids are double-membrane organelles which are found in the cells of plants and algae that are responsible for manufacturing and storing of food. |
| | | 5.2.5 (vi) Vacuoles | A vacuole is a membrane-bound cell organelle generally small and help sequester waste products in animals, and large in size with maintanance of water balance in plants. |

| - | | V.3.2.0707 | /ISION 1 - (7-14 AUGUST) |
|-----------|-----------------|-------------------------|--|
| * | | CHAPTER 5 - THE FUN | DAMENTAL UNIT OF LIFE |
| | | 6.3 Animal tissues | Animal tissues are tissues which are animal body is made of, there are four types of tissues found in animals: epithelial tissue, connective tissue, muscular tissue, and nervous tissue. |
| 1 | | 6.3.1 Epithelial tissue | Epithelial tissues are tissues that serves as a covering or lining for a body part which has a free surface that is exposed to either a body fluid or the outside environment. |
| SEPTEMBER | TISSUES (Contd) | 6.3.2 Connective tissue | Tissue that supports, protects, and gives structure to other tissues and organs in the body are called connective tissues. |
| | | 6.3.3 Muscular tissue | Muscular tissue is a specialized tissue in animals which applies forces to different parts of the body by contraction which is made up of thin and elongated cells called muscle fibers that controls the movement of an organism. |
| | | 6.3.4 Nervous tissue | Cells specialized to receive and transmit electrical impulses from specific areas of the body and to send them to specific locations in the body organized into structures called nerves. |

| | | Cell division | The process by which a single parent cell splits to form new cells that are categorised into mitosis and meiosis. |
|--------|-------------|---|---|
| | | 6.1 Are plants and animals made of same types of tissues? | A group of cells that are similar in structure and work together to do a peculiar function is called tissue. |
| | | 6.2 Plant tissues | Plant tissue systems fall into one of two general types: meristematic tissue, and permanent (or non-meristematic) tissue, which are further divided into simple and complex permanent tissue. |
| AUGUST | 6 - TISSUES | 6.2.1 Meristematic tissues | Meristematic tissues are the tissues in which the cells divide continuously and help in increasing the length and girth of the plant. |
| | | 6.2.2Permanent tissue | The tissues that are completely grown and have lost the ability of division are known as permanent tissues. |
| | | 6.2.2 (i)Simple permanent tissue | Simple permanent tissue is a tissue that is made up of similar permanent cells that carry out the same function or a similar set of functions. |
| | | Epidermis | Epidermis, outermost, protoderm-derived layer of cells covering the stem, root, leaf, flower, fruit, and seed parts of a plants. |
| | | 6.2.2 (ii) Complex permanent tissue | Permanent tissues are a collection of different types of cells working together as a unit and performing a certain function. |

| OCTOBER | REVISION PERIODIC TEST - 2 (OCTOBER 5- 16) CHAPTER 5 - THE FUNDAMENTAL UNIT OF LIFE (20%) & CHAPTER 6 -TISSUES (80%) | | | |
|----------|--|-----------------------------------|--|--|
| OCTOBER | 12 - IMPROVEMENT IN FOOD RESOURCES | 12.1 Improvement in crop yields | Food supplies proteins, carbohydrates, fats, vitamins and minerals, all of which we require for body development, growth and health. different crops require different climatic conditions, temperature and photoperiods for their growth and completion of their life cycle | |
| 9 | IMPROVEMENT IN FOOD RESOURCES (Contd) | 12.1.1 Crop variety improvement | Crop variety improvement is the primary step to improve food crop production. | |
| | | 12.1.2 Crop production management | It helps in the development of crops with desired traits such as high yields, disease resistance, quality product, and response to fertilizers. | |
| NOVEMBER | | 12.1.2 (i) Nutrient management | To increase the yield, the soil can be enriched by supplying these nutrients in the form of manure and fertilizers. | |
| | | 12.1.2 (ii) Irrigation | Several different kinds of irrigation systems are adopted to supply water to agricultural lands depending on the kinds of water resources available. These include wells, canals, rivers and tanks. | |

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| | | 12.1.2 (iii) Cropping patterns | Different ways of growing crops can be used to give maximum benefit they are Mixed farming, Mixed cropping, intercropping, crop rotation etc |
|----------|---|-----------------------------------|--|
| DECEMBER | IMPROVEMENT IN FOOD RESOURCES (Contd) | 12.1.3 Crop protection management | Crop Protection is a general practice of managing, improving and protecting crops from pests and weeds. |
| | | Storage of grains | Preventive and control measures are used before grains are stored for future use. |
| | IMPROVEMENT IN FOOD RESOURCES (Contd) | 12.2 Animal husbandry | Animal husbandry is the branch of agriculture where animals are reared, bred and raised for meat, fiber, eggs, milk, honey and other food products. |
| | | 12.2.1 Cattle farming | Cattle farming is the process of raising cattle from birth until the point at which they provide food or milk for consumption. |
| JANUARY | | 12.2.2 Poultry farming | Poultry farming is the form of animal husbandry which raises domesticated birds such as chickens, ducks, turkeys and geese to produce meat or eggs for food. |
| | | 12.2.3 Fish production | "Fish production or fish farming is a form of aquaculture in which fish are raised in enclosures to be sold as food." |
| | | 12.2.3 (i)Marine fisheries | The practice of growing fish in seawater or saltwater is known as a marine fishery. |
| | | 12.2.3 (ii)Inland fisheries | Inland fisheries are commercial fishing operations taking place in freshwater. |

| | PERIODIC TEST - 3 (JANUARY 8- 15) CHAPTER 5 THE FUNDAMENTAL UNIT OF LIFE(20%), CHAPTER 6 TISSUES (20%) & CHAPTER 12 IMPROVEMENT IN FOOD RESOURCES (60%) | | | |
|----------|--|--------------------|--|--|
| | | | | |
| FEBRUARY | 16 | 12.2.4 Bee-keeping | Apiculture or beekeeping is the care and management of honey bees for the production of honey and wax. | |
| FEBRUARY | REVISION | FINAL | EXAMINATION (FEBRUARY 19 - 28) FULL PORTION | |

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| NAME OF THE SCHOOL | NAME OF THE TEACHER | SIGNATURE |
|---|---------------------|--------------|
| Bhavan's Vidya Mandir , Elamakkara | Lekshmi Sankar K S | lelah |
| Bhavan's Vidya Mandir , Girinagar | Deepa H Das | elines w |
| Bhavan's Vidya Mandir , Eroor | Dr. E Rajesh Menon | Za oducement |
| Bhavan's Adarsha Vidyalaya, Kakkanad | Parvathy Ammal K R | Romathi |
| Bhavan's Varuna Vidyalaya , Thrikkakara | Anjali A G | Lych |
| Bhavan's Munshi Vidyashram , Thiruvamkulam | Meera Venugopal | ange! |
| Bhavan's Newsprint Vidyalaya , Vellore | Soniamol T C | Some |

| | | BH | ARATIYA VIDYA BHAVAN ,KOCHI | | |
|---|--|---|---|--|-----------------------------|
| | | SCHE | ME OF WORK FOR THE YEAR 2023-2 | 24 | |
| CLASS | | | IX | | |
| SUBJECT | | | BIOLOGY | | |
| MONTH | | | JUNE | | |
| TOPIC | | | FUNDAMENTAL UNIT OF | LIFE | |
| COMPETENCIES | Explains the role of cel including the semiperm of life processes | lular components (nucleus neability of cell membrane | mitochondria, endoplasmic reticulum, vac in making cell the structural basis of living | uoles,chloroplast, cell wall), organisms and functional basis | |
| SUB-TOPIC | CONCEPTS | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE LEVELS (as per Blooms Taxonomy) | ASSESSMENT FOR LEARNING |
| 5.1 WHAT ARE LIVING ORGANISMS MADE UP OF? | All living organisms are made up of one or more cells, which are considered the fundamental units of life. | C-3.1 | *Describes how and why organisms are classified according to shared characteristics and place them in groups based on similarities. *Recalls the different features of living organisms. | Understand - Recall & Reproduce Knowledge - Recall & Reproduce | Oral / Quiz |
| 5.2 WHAT IS A CELL MADE UP OF? WHAT IS THE STRUCTURAL ORGANISATION OF A CELL? | A cell consists of three parts: the cell membrane, the nucleus, and, between the two, the cytoplasm. Within the cytoplasm lie intricate arrangements of fine fibers and hundreds or even thousands of miniscule but distinct structures called organelles. | | *Identifies the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles. | Understand - Recall & Reproduce | Pop Quiz (unannounced quiz) |

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| 5.2.1 PLASMA MEMBRANE OR CELL MEMBRANE | Plasma/Cell membrane: This is the outermost covering of the cell that separates the contents of the cell from its external environment. The plasma membrane allows or permits the entry and exit of some materials in and out of the cell so the cell membrane is called a selectively permeablemembrane. | *Reframe plasma membrane functions as a physical barrier between the external environment and the inner cell organelles. *Infer plasma membrane as a selectively permeable membrane, which permits the movement of only certain molecules both in and out of the cell. | Evaluate - Extended learning Analyze - Strategic thinking | Individual Worksheet (Demonstration based) |
|--|---|---|---|--|
| 5.2.2 Cell wall | Cell wall is the outermost covering of a plant cell. It is a tough and flexible (sometimes rigid) layer that provides structural support and protection to the cell. | *Relate the structure and function of cell wall with real life examples. *Appraise the role of cellwall that permit the cells of plants, fungi and bacteria to withstand very dilute (hypotonic) external media without bursting. | Understand - Recall & Reproduce Evaluate - Extended learning | Case based questions Individual Worksheet (Demonstration based) |

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|------------------------------------|--|--------------|--|---|--|--|
| | | | BHARATIYA VIDYA BHAVAN ,KOCHI SCHEME OF WORK FOR THE YEAR 2023-2 | 04 | | |
| CLASS SUBJECT MONTH TOPIC | IX BIOLOGY JULY THE FUNDAMENTAL UNIT OF LIFE | | | | | |
| COMPETENCIES | | | mitochondria, endoplasmic reticulum, vacuoles,chlor the structural basis of living organisms and function | | T. R. Gal | |
| SUB-TOPIC | CONCEPTS | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE LEVELS (as per Blooms Taxonomy) | ASSESSMENT FOR LEARNING | |
| 5.2.3Nucleus | The nucleus is a small, round and membrane-bound structure found in cells. And the fluid inside the nucleus surrounded by the nuclear membrane is called nucleoplasm. It controls cell's growth and reproduction as it contains cell's hereditary information. It's covered by dual layer called a nuclear membrane. | C-3.1 | *Locates and recalls the postion of nuclues in the cell. *Expains the detailed structre of nucleus. *Sketch the structure of nucleus. *Identifies the function of nucleus. *Differentiate between Prokaryotes and Eukaryotes. *Organise the structural components of nucleus. | Knowledge - Recall & Reproduce Understand - Recall & Reproduce Apply - Skills and concepts Understand - Recall & Reproduce Analyze - Strategic thinking Create - Extended learning Knowledge - Recall & Reproduce | Diagram Test Case Study Questions MCQ | |
| 5.2.4Cytoplasm | Cytoplasm is the gelatinous liquid that fills the inside of a cell embedded with cell organelles. | | *Plan an experiment to view cytoplasm through the microscope *Assess the structral component of cytoplasm | Create - Extended learning Evaluate - Extended learning | Pop Quiz | |
| 5.2.5 Cell organelles | An organelle is a specialised part of the cellthat serves a specific purpose within the cell. there are many organelles present within a cell and they also vary depending on what kind of cell, whetherit be a plant or animal. an organelle is a specialised part of the cell. | | *Name the membrane bound little structures suspended in the cytoplasm. *Relates the finction of cell organelles in identifing prokaryotes and eukaryotes. *Identify and tells the different cell organelles. *Interprets the need of seprating the cell organelles with membranes | Knowledge - Recall & Reproduce Apply - Skills and concepts Knowledge - Recall & Reproduce | Diagram Test Think Pair Share Label any five organelles common in plant cell and animal cell in the diagram. | |

| 5.2.5 (i) Endoplasmic | Endoplasmic Reticulum is a complex network of tubular membranes exclusively present in the cytoplasm of the eukaryotic cell. | | *Describes the structure of endoplasmic reticulum *Distinguish between SER and RER *Reframes the functions of SER and RER *Liet the functions of ER | Knowledge - Recall & Reproduce Analyze - Strategic thinking | Individual Worksheet (MCQ based) |
|-------------------------------|---|---|---|--|----------------------------------|
| 5.2.5 (ii) Golgi apparatus | A stack of small flat sacs formed by membranes inside the cell's cytoplasm is called golgi apparatus. | 1 | *Enumerate the story of Camillo Golgi *Survey the duties of Golgi bodies *Connect the functions like storage and synthesis of Golgi bodies. | Knowledge - Recall & Reproduce Analyze - Strategic thinking Analyze - Strategic thinking | One minute paper |
| 5.2.5 (iii) Lysosomes | Lysosome is a membrane-bound cell organelle that contains digestive enzymes. | | *Interprests the structure of Lysosome *Integrates the different functions of lysosomes. *Name the lysosomes as SUICIDAL BAGS as they burst and the enzymes in them digest their own cell. *List the function of lysosomes | Understand - Recall & Reproduce Create - Extended learning Knowledge - Recall & Reproduce Knowledge - Recall & Reproduce | Muddiest point Activity |
| 5.2.5 (iv) Mitochondria | Mitochondria are membrane-bound cell organelles (mitochondrion, singular) that generate most of the chemical energy needed to power the cell's biochemical reactions. | | *Names mitochondria as POWER HOUSE of the cell. *Identify and Explain the structure *Infer mitochondria as strange organelles *Explain the structure of mitochondria *Compare mitochondria and plastids | Knowledge - Recall & Reproduce Knowledge and analyse Analyze - Strategic thinking Understand - Recall & Reproduce Evaluate - Extended learning | Puzzle Drag and drop |

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|---------------------|--|---|--|---|
| 5.2.5 (v) Plastids | Plastids are double-membrane organelles which are found in the cells of plants and algae that are responsible for manufacturing and storing of food. | *Infer mitochondria as strange organelles *Compare mitochondria and plastids as strange organ | Knowledge - Recall & Reproduce and Analyze - Strategic thinking Analyze - Strategic thinking Understand - Recall & Reproduce Evaluate - Extended learning Understand - Recall & Reproduce Analyze - Strategic thinking Understand - Recall & Reproduce | Exit splits |
| 5.2.5 (vi) Vacuoles | A vacuole is a membrane-bound cell organelle generally small and help sequester waste products in animals, and large in size with maintanance of water | *Explains the structure and function of vacuole. *Compare the size of vacuoles in plant & animal cel *Generalise the functions of vacuoles in different or *List out the components of vacuolar sap. | Analyse - Strategic thinking Create - Extended learning Knowledge | Complete the flow-chart on cell organelles Diagram based worksheet |
| Cell division | The process by which a single parent cell splits to form new cells that are categorised into mitosis and meiosis. | *Define cell division. *Distinguish between SER and RER *Reframes the functions of SER and RER *List out the functions of ER | Knowledge - Recall & Reproduce Understand - Recall & Reproduce Evaluate - Extended learning Knowledge - Recall & Reproduce | Diagram Test KWL Chart ("Know," "Want to Know," and "Learned." |
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|---|---|--------------------------|--|--|-------------------------|
| | | SCHEM | IE OF WORK FOR THE YEAR 2023- | 24 | = |
| CLASS | | | IX | | |
| SUBJECT | | | BIOLOGY AUGUST | | |
| MONTH | | | | | |
| TOPIC | | | TISSUES | | |
| COMPETENCIES | Illustrates different lev | rels of organisations of | living Organisms (from molecules to orga | anisms) | |
| SUB-TOPIC | CONCEPTS | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE LEVELS (as per Blooms Taxonomy) | ASSESSMENT FOR LEARNING |
| 6.1 Are plants and animals made of same types of tissues? | A group of cells that are similar in structure and work together to do a peculiar function | C-4.2 | *Define tissues as a cluster of cells at a definite place in the body. *Infer whether plants and animals are made of same type of tissues. | Knowledge - Recall & Reproduce Understand - Recall & | Exit cards |
| 6.2 Plant tissues | Plant tissue systems fall into one of two general types: meristematic tissue, and permanent (or non-meristematic) tissue, which are further divided into simple and complex permanent tissue. | | *Design an experiment to demonstrate growth of roots in onion bulbs | Create - Extended learning | One minute paper |
| 6.2.1 Meristematic tissues | Meristematic tissues are the tissues in which the cells divide continuously and help in increasing the length and girth of the plant. | | *Explain the structure of Meristematic tissue. *Classify Meristematic tissues depending on the region where they are present. *Point out the location of meristematic tissues on the plant body and name them. | Understand - Recall & Reproduce Understand - Recall & Reproduce Analyse and Knowledge - Recall & Reproduce Evaluate - Extended learning | Diagram Test MCQs |

| 5.2.2Permanent tissue | The tissues that are completely grown and have lost the ability of division are known as permanent tissues. | *Roognise what happens to the cells formed by meristematic tissue? *Explain the word differentiation in plants. *Identifies that differentiation leads to different types of tissues | Knowledge - Recall & Reproduce Understand - Recall & Reproduce Knowledge - Recall & Reproduce | Concept map |
|----------------------------------|--|---|--|----------------------|
| 5.2.2 (i)Simple permanent tissue | Simple permanent tissue is a tissue that is made up of similar permanent cells that carry out the same function or a similar set of functions. | *Locate the position of simple permanent tissue in plant body. *Explains the structure of permanent tissues. *Name the permanent tissue according to the contents in them. | Knowledge - Recall & Reproduce Understand - Recall & Reproduce Knowledge - Recall & Reproduce | Think Pair Share |
| Epidermis | Epidermis, outermost, protoderm-derived layer of cells covering the stem, root, leaf, flower, fruit, and seed parts of a plant. | *Locates the epidermis in plant body. *Explains the structure and function of epidermis. *Point out the stomata in the leaves of plants *Compares the epidermal layer in roots and leaves. *Distinguish outer layer of a branch of a tree different from the outer layer of a | Knowledge - Recall & Reproduce Understand - Recall & Reproduce Analyze - Strategic thinking Analyze - Strategic thinking Understand - Recall & Reproduce | Case study questions |

| a collection of different types of cells working permanent tissue a collection of different types of cells working and phloem. *Compile the different cells of xylem and phloem. Strategic thinking Create Create - Extended | | different types of cells working together as a unit and performing a certain | and phloem. *Sketch the figures of xylem and | Reproduce and Analyze - Strategic thinking Create Create - Extended learning | MCQs Quiz Diagram worksheet | â |
|--|--|---|---|---|-----------------------------------|---|
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REVISION PERIODIC TEST 1 - (7-14 AUGUST)

THE FUNDAMENTAL UNIT OF LIFE

NATURAL RESOURCES (PORTFOLIO)

| | | BHARATIY | A VIDYA BHAVAN ,KOCHI | | | | | |
|-------------------------|---|------------------------|--|---|---------------------------------|--|--|--|
| | 4 | SCHEME OF V | VORK FOR THE YEAR 2023-24 | | | | | |
| CLASS | IX | | | | | | | |
| SUBJECT | | | BIOLOGY SEPTEMBER | | | | | |
| MONTH | | | TISSUES | | | | | |
| TOPIC | | | | | | | | |
| COMPETENCIES | Illustrates different levels of organisations | of living organisms (f | om molecules to organisms) | | | | | |
| SUB-TOPIC | CONCEPTS | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE LEVELS (as per Blooms Taxonomy) | ASSESSMENT FOR LEARNING | | | |
| 6.3 Animal tissues | Animal tissues are tissues which are animal body is made of, there are four types of tissues found in animals: epithelial tissue, connective tissue, muscle tissue, and nervous tissue. | C-4.2 | Name the different tissues in animal body. Classifies the different animal tissues based on location & functions. | Knowledge - Recall & Reproduce Understand - Recall & Reproduce | Case based study Quiz | | | |
| 6.3.1 Epithelial tissue | Epithelial tissues are tissues that serves as a covering or lining for a body part which has a free surface that is exposed to either a body fluid or the outside environment. | | Define epithelial tissues as the covering or protective tissues in the animal body. Categorize epithelial tissue showing differing structures that correlate with their unique functions. | Knowledge - Recall & Reproduce Analyze - Strategic thinking | Diagram Test Quiz | | | |
| 6.3.2 Connective tissue | Tissue that supports, protects, and gives structure to other tissues and organs in the body are called connective tissues. | 3- 7 | Compares the structural composition of bone and cartilage. Appraise the role of areolar connective tissue in supporting internal organs and helping in repair of tissues. | Understand - Recall & Reproduce Evaluate - Extended learning | Diagram Test Quiz Concept map | | | |

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| | | Identifies the different types of muscular tissue. | | 1000 |
|-----------------------|--|--|---|----------------------|
| 6.3.3 Muscular tissue | Muscular tissue is a specialized tissue in animals which applies forces to different parts of the body by contraction which is made up of thin and elongated cells called muscle fibers that controls the movement of an organism. | Compares the structures of different types of muscular tissues with respect to their shape, number of nuclei and position of nuclei within the cell. | Knowledge - Recall & Reproduce Analyze - Strategic thinking | Diagram Test Quiz |
| 6.3.4 Nervous tissue | Cells specialized to receive and transmit electrical impulses from specific areas of the body and to send them to specific locations in the body organized into structures called nerves. | List out the parts of neuron. Sketch the diagram of Neuron-unit of nervous tissue. | Knowledge - Recall & Reproduce Apply -Skills & Concepts | Diagram Test Quiz |

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|---|---|---|--|---|-----------------------------|--|--|--|
| | | SCHE | EME OF WORK FOR THE YEAR 202 | 3-24 | | | | |
| CLASS | | IX | | | | | | |
| SUBJECT | | | BIOLOGY | | | | | |
| MONTH | | | OCTOBER | | | | | |
| ТОРІС | | | IMPROVEMENT IN FOOD R | ESOURCES | | | | |
| COMPETENCIES | Analyses different lever resources can be share | els of biological organi d andmaintained (grov | isation from organisms to ecosystems and ving vegetables in flowerpots/kitchen gard | biomes, and interactions that take dens, use of rainwater) | place at each level, how no | | | |
| SUB-TOPIC | CONCEPTS | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE LEVELS (as per Blooms Taxonomy) | ASSESSMENT FOR LEARNING | | | |
| 12.1 Improvement in crop yields (Till Crop variety improvement) | Food supplies proteins, carbohydrates, fats, vitamins and minerals, all of which we require for body development, growth and health. different crops require different climatic conditions, temperature and | C-4.3 | *Differentiates crop into kharif and rabi with respect to the season in which they are grown. *Appraises the major groups of activities for improving crop yields | Understand - Recall & Reproduce Evaluate - Extended learning | Case based questions Quiz | | | |
| | | | REVISION PERIODIC TEST - 2 (OCTOBER 5- 16) THE FUNDAMENTAL UNIT OF LIFE & TISSUES | | ę w | | | |

BHARATIYA VIDYA BHAVAN ,KOCHI CLASS IX LIST OF ACTIVITIES FOR THE ACADEMIC YEAR 2023-24

| MONTH | NO | PRACTICALS (LIST OF EXPERIMENTS) | | |
|--------------------|----|---|--|--|
| JUNE / JULY | 1 | Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams. | | |
| AUGUST / SEPTEMBER | 2 | Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped,smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams. | | |
| TOPIC | NO | LIST OF ACTIVITIES | | |
| | 1 | Parts of a compound microscope. | | |
| THE FUNDAMENTAL | 2 | Osmosis with an egg, dried raisins or apricots. | | |
| UNIT OF LIFE | 3 | Model making -Cell | | |
| | 4 | Making a Potato Osmometer and observing endosmosis and exosmosis. | | |
| | 5 | Growth of roots with & without root tips in onion bulbs to show the importance of meristematic tissue. | | |
| | 6 | Demonstration of temporary / permanent slide prepration to show the arrangement of plant tissues | | |
| | 7 | Rhoeo leaf activity to identify guard cells and epidermal cells | | |
| Tissues | 8 | Rhoeo leaf activity to show open and closed of stomata | | |
| | 9 | Activity to show transpiration in plants | | |
| | 10 | Observation of permanent slides of blood cells | | |
| | 11 | Compare the structures of different types of muscular tissues. Note down their shape number of nuclei and position of nuclei within the cell. | | |

Portfolio

The chapter Natural Resources (NCERT Chapter 14) will not be assessed in the year-end examination. However, learners may be assigned to read this chapter and encouraged to prepare a brief write up on any concept of this chapter in their Portfolio. This may be for Internal Assessment and credit may be given for Periodic Assessment/Portfolio.

| A STATE OF THE STA | NAME OF THE TEACHER | SIGNATURE |
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| NAME OF THE SCHOOL | NAME OF THE TELE | ella! |
| Bhavan's Vidya Mandir , Elamakkara | Lekshmi Sankar K S | all Co |
| Bhavan's Vidya Mandir , Girinagar | Deepa H Das | Zicomunito C |
| Bhavan's Vidya Mandir , Eroor | Dr. E Rajesh Menon | |
| Bhavan's Adarsha Vidyalaya, Kakkanad | Parvathy Ammal K R | a dimathi |
| Bhavan's Varuna Vidyalaya , Thrikkakara | Anjali A G | duyth one |
| Bhavan's Munshi Vidyashram , Thiruvamkulam | Meera Venugopal | |
| Bhavan's Newsprint Vidyalaya , Vellore | Soniamol T C | Som |

BHARATIYA VIDYA BHAVAN, KOCHI

| | | YEAR PLAN FOR THE ACADEMIC STD IX CHEMISTRY | (|
|-----------|---|--|--|
| MONTH | TOPIC | SUB-TOPICS | CONCEPTS |
| DINE | Chapter 1 Matter in our surroundings | Physical nature of matter Characteristics of particles of matter States of matter | Definition of matter Physical nature of matter Characteristics of particles of matter States of matter |
| JULY | Chapter 1 Matter in our surroundings | Can matter change its state? Evaporation | Effect of change of temperature Effect of change of pressure Definition of evaporation Factors affecting evaporation |
| AUGUST | Chapter 2 Is matter around us pure | Physical and chemical changes What are the types of pure substances? | Differences between physical and chemical changes Definition of elements and compounds Differences between mixtures and compounds |
| | | PERIODIC TEST 1 07/08/2023 - 14/08/2023 CHAPTER 1-MATTER IN OUR SUR | ROUNDINGS |
| SEPTEMBER | Chapter 2 Is matter around us pure? | What is a mixture? Solution, suspension, colloids | Definition of mixtures Types of mixtures Differences between homogeneous and heterogeneous mixtures |
| OCTOBER | Chapter 3 Atoms and molecules | Laws of chemical combination What is an atom? | Law of conservation of matter Law of constant proportion Dalton's Atomic Theory Definition of atom and size of atom Symbols of atoms of elements Atomic mass |
| | СНА | PERIODIC TEST 2 05/10/2023-16/10/2023 PTER 1-MATTER IN OUR SURROUNDIN APTER 2- IS MATTER AROUND US PUR | NGS(40% WEIGHTAGE) |
| NOVEMBER | Chapter 3 Atoms and molecules | What is a molecule? Writing chemical formula Molecular mass | Molecules of elements and compounds Ions Names and symbols of ions Formulae of simple compounds Molecular mass and formula unit mass |
| DECEMBER | Chapter 4 Structure of atom | Charged particles in matter The structure of atom How are electrons distributed in shells? Valency | Subatomic particles Thomson's model of atom Rutherford's model Bohr's model Valency and electronic distribution |
| JANUARY | Chapter 4 Structure of atom | Atomic number and mass number Isotopes and isobars | Definition of Atomic number and mass number Isotopes and uses Isobars |
| | CH | PERIODIC TEST 3 08/01/2024-15/01/2024 PTER 1-MATTER IN OUR SURROUNDI APTER 2- IS MATTER AROUND US PUI CHAPTER 3- ATOMS AND MOLECULES | 4 INGS(20% WEIGHTAGE) RE?(20% WEIGHTAGE) |
| | | | |

FINAL EXAMINATION QUESTION PAPER PATTERN AS PER CBSE SAMPLE PAPER

19/02/2024-28/02/2024

CHAPTER 1-MATTER IN OUR SURROUNDINGS(10% WEIGHTAGE -TOPIC- EVAPORATION; 1.5)
CHAPTER 2- IS MATTER AROUND US PURE?(10% WEIGHTAGE-TOPIC-WHAT ARE THE TYPES OF PURE SUBSTANCES?; 2.5)
CHAPTER 3- ATOMS AND MOLECULES(30% WEIGHTAGE-FULL CHAPTER)
CHAPTER 4- STRUCTURE OF ATOM(50% WEIGHTAGE-FULL CHAPTER)

| NAME OF THE TEACHER SIGNATURE | | NAME OF THE SCHOOL |
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| ROJO THOMAS | GVX | BHAVAN'S VIDYA MANDIR, EROOR |
| ANU RAMAN | 9 | BHAVAN'S VIDYA MANDIR, GIRINAGAR |
| BEENA GEORGE | Sales : | BHAVAN'S VIDYA MANDIR, ELAMAKKARA |
| PRIYA K NAIR | The second second | BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD |
| MEENA NAIR | and the second | BHAVAN'S VARUNA VIDYALAYA THRIKKAKARA |
| REMYA S NAIR | 1 | BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR |
| SREEJA SREEDHAR | 88/ | BHAVAN'S MUNSHI VIDYASHRAM, TRIPUNITHURA |

| | | HARATIYA VIDYA BHAVAN, KOCH EAR PLAN FOR THE ACADEMIC YEA | |
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| STD | | MATHEMATICS | |
| MONTH | TOPIC | SUB-TOPICS | CONCEPTS |
| | 1.NUMBER SYSTEMS | Introduction,Irrational numbers, Real numbers and their decimal expansion,operation on real numbers, Laws of exponents for real numbers | Review of representation of natural numbers, integers and rational numbers on the number line, Rational numbers as recurring/terminating decimals,Operations on Real numbers, Representing irrational numbers on a number line,definition of nth root of a real number, Rationalization (with precise meaning) of real numbers of the type $1/a + b\sqrt{x}$ and $1/\sqrt{x} + \sqrt{y}$ (and their combinations) where x and y are natural number and a and b are integers, Recall of laws of exponents with integral powers. |
| JUNE | 2. POLYNOMIALS | Introduction,Polynomials in one variable,zeroes of a polynomial, factorisation of polynomials, algebraic identities. | Definition of a polynomial in one variable, with examples and counterexamples. Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Zeros of a polynomial, Remainder theorem, Statement and proof of the Factor Theorem. Factorization of ax²+ bx + c, a \neq 0 where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Verification of identities: $(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$, $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy$ $(x \pm y)$, $x^3 \pm y^3 = (x \pm y)$ $(x^2 \pm xy + y^2)$, $x^3 + y^3 + z^3 - 3xyz = (x \pm y + z)$ $(x^2 + y^2 + z^2 - xy - yz - zx)$ and their use in factorization of polynomials. |
| | POLYNOMIALS (CON | TD) | The Contains have a live of a sixt |
| | 3. COORDINATE GEOMETRY | Introduction, Cartesian system | The Cartesian plane, coordinates of a point, names and terms associated with the coordinate |
| JULY | 4. LINEAR EQUATIONS IN TWO VARIABLES | Introduction, Linear equations, solution of a linear equation | Recall of linear equations in one variable. Introduction to the equation in two variables. Focus on linear equations of the type ax+by+c=0.Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers ,plotting them and showing that they lie on a line. |
| | PERIO | DIC TEST 1 AUG 7th TO AUG 14th C | CHAPTERS 1,2,3 |
| | LINEAR EQUATIONS | CONTD | |
| AUGUST | 6. LINES AND ANGLES | Introduction, basic terms and definitions, intersecting lines and non intersecting lines, pairs of angles, lines parallel to the same line | 1.(Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180° and the converse. 2. (Prove) If two lines intersect, vertically opposite angles are equal. 3. (Motivate) Lines which are parallel to a given line are parallel. |

| | 10. HERON'S FORMULA | Area of a triangle- by Heron's formula | Area of a triangle using Heron's formula (without proof) |
|-----------|------------------------|---|--|
| SEPTEMBER | 7. TRIANGLES | Introduction, congruence of triangles, criteria for congruence of triangles, SAS congruence rule, ASA congruence rule, AAS congruence rule, SSS congruence rule ,RHS congruence rule , sum properties of a triangle | 1.(Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). 2. (Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). 3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence). 4. (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence) 5. (Prove) The angles opposite to equal sides of a triangle are equal. 6. (Motivate) The sides opposite to equal angles of a triangle are equal. |
| | PERIO | ODIC TEST 2 - OCT 5th to OCT 16th C | Chapters 2,4,6,10 |
| OCTOBER | TRIANGLES | | |
| NOVEMBER | 12. STATISTICS | Graphical representation of data - bar graph ,histogram, frequency polygon | Bar graphs, histograms (with varying base lengths), frequency polygons. |
| | 8. QUADRILATERALS | Properties of a parallelogram, The Mid-point theorem | 1.(Prove)The diagonal divides a parallelogram into two congruent triangles. 2. (Motivate) In a parallelogram opposite sides are equal, and conversely. 3. (Motivate) In a parallelogram opposite angles are equal, and conversely. 4. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. 5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely. 6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and is half of it and (motivate) its converse |
| DECEMBER | QUADRILATERALS (| CONTD | |

| | 9. CIRCLES | Angles subtended by a chord at a point, perpendicular from the centre to a chord ,Equal chords and their distances from the centre, Angle subtended by an arc of a circle , Cyclic quadrilaterals. | Through examples, arrive at the definition of circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, subtended angle. 1. (Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse. 2. (Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord. 3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely. 4. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. 5. (Motivate) Angles in the same segment of a |
|----------|---|--|---|
| | PE | RIODIC TEST 3 - JAN 8th to JAN 15t | h- CHAPTERS 3,7,8,10,12 - |
| | 9. CIRCLES | | |
| JANUARY | INTRODUCTION TO EUCLID'S GEOMETRY | Introduction to Euclid's Geometry (SEMINAR BY STUDENTS) | Periods History - Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomena into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. The five postulates of Euclid Showing the relationship between axiom and theorem, for example: (Axiom) 1. Given two distinct points, there exists one and only one line through them. 118 (Theorem) 2. (Prove) Two distinct lines cannot have more than one point in common. |
| | 11. SURFACE AREAS AND VOLUMES | Surface area of a right circular cone, Surface area of a sphere, hemi sphere, Volume of a right circular cone,Volume of a sphere, hemi sphere | Surface areas and volumes of spheres (including hemispheres) and right circular cones. |
| FEBRUARY | SURFACE AREAS AND VOLUMES CONTD | | |
| | | FINAL EXAMINATION- 19th February -28th February(Chapters- | |

1,2,3,4,5,6,7,8,9,10,11,12)

BHAVAN'S VIDYA MANDIR, ELAMAKKARA- SARITHA .K BHAVAN'S VIDYA MANDIR, GIRINAGAR-INDU .S.N BHAVAN'S VIDYA MANDIR ,EROOR -INDU P.N BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD-JITHA.C BHAVAN'S VARUNA VIDYALAYA-VYJI N.R BHAVAN'S NEWSPRINT VIDYALAYA,VELLOOR-RAJESH.M.N

BHAVAN'S MUNSHI VIDYASHRAM,THIRUVAMKULAM-SREEREKHA.U

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| | | WORK FOR THE Y | • | | | | |
| CLASS | IX SCHEWE OF | WORK FOR THE I | EAR 2023-24 | | | | |
| SUBJECT | | MATHEMATICS | | | | | |
| MONTH | JUNE | | | | | | |
| TOPIC | NUMBER SYSTEMS | | | | | | |
| | C-1.1 Develops a deeper understanding | of numbers. | | | | | |
| | including the set of real numbers and its | | | | | | |
| | C-1.5 Recognises and appropriately uses | powers and | | | | | |
| COMPETENCIES | exponents | | | | | | |
| | | | | | | | |
| | | | | COGNITIVE | | | |
| | | | | LEVELS | | | |
| | | | | (as per Blooms | ASSESSMENT FOR | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | Taxonomy) | LEARNING | | |
| Introduction,Irrational | Define rational, Irrational numbers- | | Interpret the concept of | | | | |
| numbers, Real numbers and | Rational numbers as | | Rational , Irrational | | | | |
| their decimal expansion | recurring/terminating decimals | C-1.1 | numbers | Understand | Flash Cards | | |
| | | | applies logical reasoning | | | | |
| | 1122 | | in classifying real | | | | |
| Operation on real numbers | Addition, subtraction, multiplication and division of Real Numbers | | numbers, proving their | | | | |
| | and division of Real Numbers | | properties and using them in different | | Practice questions through | | |
| | | C-1.1 | situations. | Apply | group activity | | |
| | | | | | , , , , , , , , , , , , , , , , , , , | | |
| Irrational numbers on a | | | Represents Irrational | | | | |
| number line | Representing irrational numbers on a | | numbers on a number | A | Art Integrated activity- | | |
| | number line | C-1.1 | line | Apply | Square root spiral | | |
| | | | Defines the concept of | | | | |
| nth root of a real number | Define nth root of a real number, | | nth root of a Real | | | | |
| | | C-1.1 | Number | Understand | Quiz-Oral questions | | |
| | | | | | | | |
| Dationalistics of the | Detionalizing the denominator (Decl | | Calvas the problems | | | | |
| Rationalistion of the denominator of Real numbers | Rationalizing the denominator of Real numbers | | Solves the problems based on rationalising | | | | |
| uchominator of Real number | mumber 5 | | the denominator of Real | | | | |
| | | C-1.5 | Numbers | Apply | Assignment questions | | |
| | | | . , | 1.0-7 | | | |
| | Decall of laws of array to -24 | | | | | | |
| Laws of exponents for real | Recall of laws of exponents with integral powers & apply the laws for | | Recalls the laws of | | | | |
| numbers | Real Numbers | | exponents and applies | | | | |
| | - Control of | C-1.5 | the laws for Real | Remember | | | |
| | Í | C-1.6 | Numbers | Apply | MCQ | | |

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| | SCHEME OF WO | RK FOR THE Y | EAR 2023-24 | | |
| CLASS | IX | | | | |
| SUBJECT | MATHEMATICS | | | | |
| MONTH | JULY | | | | |
| TOPIC | POLYNOMIALS | | | | |
| | C-2.1 Learns the art of factorising polynomials | | | | |
| COMPETENCIES | C-2.2 Forms polynomials using variables ,coeff | cients and | | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING |
| Introduction | Recall of algebraic identities: (a+b) ² ,(a-b) ² a ² -b ² | C-2.2 | Recalls and applies algebraic identities | Remember | Practice questions |
| Polynomials in one variable | Definition of a polynomial in one variable with examples, Coefficients of a polynomial, terms of a polynomial and zero polynomial, monomial, binomial ,trinomial, degree of a polynomial,linear, quadratic and cubic polynomial, constant polynomial ,zero polynomial. | C-2.2 | Identifies and classifies polynomials. | Understand Apply | Questionnaire,MCQ |
| zeroes of a polynomial | A real number ,'c' is a zero of a polynomial p (x) if p(c)=0. | C-2.2 | Inteprets and identifies zeroes of a polynomial | Apply | Practice questions |
| Remainder theorem | If p(x) is a polynomial of degree greater than or equal to 1 and p(x) is divided by linear polynomial (x-a), then remainder is p(a). | C-2.2 | Finding the remainder when polynomial p(x) is divided by (x-a) using remainder theorem | Understand Apply | Assignment questions |
| Factorisation of polynomials Factor theorem | Statement and application of factor thorem, Using factor thorem determine if linear polynomial (x-a) is a factor of p(x) Factorise a given polynomial using splitting the middle term method. | C- 2.1 | Applies factor thorem and factorises a given polynomial | Apply | Assignment questions |
| Algebraic identities | Recall of algebraic expressions and identities. Verification of identities: $(x+y+z)2 = x2 + y2 + z2 + 2xy + 2yz + 2zx$, $(x \pm y)3 = x3 \pm y3 \pm 3xy$ $(x \pm y)$, $x3 \pm y3 = (x \pm y)$ $(x2 \pm xy + y2)$, $x3 + y3 + z3 - 3xyz = (x + y + z)$ $(x2 \pm y)2 + z2 - xy - yz - zx$ and their use in factorization of polynomials. | C-2.1 | Applies appropriate algebraic identities to factorise polynomials | Remember Understand Apply | Oral questions, Assignment questions |

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| | SCHEME OF V | VORK FOR THE Y | 'EAR 2023-24 | | | | |
| CLASS | IX | | | | | | |
| SUBJECT | MATHEMATICS | | | | | | |
| MONTH | JULY | | | | | | |
| TOPIC | COORDINATE GEOMETRY | | | | | | |
| COMPETENCIES | C-3.3 Specifies locations and describes spatial relationships using coordinate geometry, | | | | | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING | | |
| Introduction | Coordinate Geometry, The Cartesian plane | C-3.3 | Defines coordinate geometry Understands the concept of coordinate geometry. | Understand | https://youtu.be/K_fsXEBwRpg | | |
| Cartesian system | Coordinates of a point, names and terms associated with the coordinate plane, notations | C-3.3 | *Interpret the concept of coordinates , names and terms associated with the coordinate plane. *develops strategies to locate points in a Cartesian plane. | Understand Apply | Case Study based questions | | |

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| | SCHEME OF WO | RK FOR THE YE | AR 2023-24 | | |
| CLASS | IX | | | | |
| SUBJECT | MATHEMATICS | | | | |
| MONTH | JULY | | | | |
| TOPIC | LINEAR EQUTIONS IN TWO VARIABLES | | | | |
| COMPETENCIES | C-2.3 Poses and solves linear equations in two | variables | | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING |
| | Recall of linear equation in one variable, Introduction to the equation in two variables | C-2.3 | Understands and identifies linear equation in two variables. | Understand | MCQ. Questionaire |
| Introduction, Linear equations , solution of a linear equation | Solution of a linear equation, solution as ordered pairs. A linear equation in two variables has infinitely many solutions | C-1.1 | * Understands graphic , numeric ,algebraic and mental strategies to solve equations * Forms equations from real life situations. | Apply | Assignment questions |
| | Every point on the graph of the linear equation in two variables is a solution of the linear equation. Every solution of the linear equation is a point on the graph of the linear equation. | C-1.1 | Understands and draws the graph of linear equation in two variables | Analyse Create | Group work(graph) |
| | PERIODIC TEST 1 A | AUG 7th TO AUG 1 | 4th CHAPTERS 1,2,3 | | |

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| | | RK FOR THE YEA | NR 2023-24 | | |
| CLASS | IX | | | | |
| SUBJECT | MATHEMATICS | | | | |
| MONTH | AUGUST | | | | |
| TOPIC | LINES AND ANGLES | | | | |
| COMPETENCIES | C-3.1 Describes relationships including congrue angles, triangles) to make and test conjectures | | nal geometric shapes (such | as lines, | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING |
| Introduction, basic terms and definitions | Collinear and non collinear points, different types of angles, complementary & supplementary angles, linear pair, vertically opposite angles | C-3.1 | Understands different types of angles, complementary & supplementary angles, linear pair, vertically opposite angles | Understand | Quiz-Peer assessment by oral questions |
| Intersecting lines and non intersecting lines | Different ways of drawing 2 lines | C-3.1 | identifies similarities and differences among different pairs of lines | Remember | https://www.google.com/search? q=introduction+to+parallel+an d+intersecting+lines&sxssf=AP wXEdegKvbq0ghekLn455b8B4e A1zl9NQ: 1685335166337&source=lnms &tbm=vid&sa=X&ved=2ahUKE wiMhqrf2pn_AhX2Z2wGHehFC h0Q_AUoAnoECAEQBA&biw=1 366&bih=625&dpr=1#fpstate=i ve&vld=cid:d79b83c2,vid: |
| Pairs of angles | If a ray stands on a line, then the sum of the two adjacent angles so formed is 180° and the converse. If two lines intersect each other, then the vertically opposite angles are equal | C-3.1 | derives proofs of mathematical statements particularly related to geometrical concepts like pair of lines by applying axiomatic approach and solves problems using them. | Understand Apply | Practice questions through group activity |
| Lines parallel to the same line | Results on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines. Lines which are parallel to a given line are parallel. | C-3.1 | derives proofs of mathematical statements particularly related to geometrical concepts like parallel lines by applying axiomatic approach and solves problems using them. | Understand Apply | Assignment questions |

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| | SCHEME OF WO | RK FOR THE YEA | AR 2023-24 | | | |
| CLASS | IX | | | | | |
| SUBJECT | MATHEMATICS | | | | | |
| MONTH | SEPTEMBER | SEPTEMBER | | | | |
| TOPIC | HERON'S FORMULA | | | | | |
| COMPETENCIES | C-4.1 Visualises, represents, and calculates the area of a triangle using Heron's formula. | | | | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING | |
| Area of a triangle- by Heron's formula | Area of a triangle using Heron's formula (without proof) | 6.41 | Apply Heron's formula and calculate the area | Understand | | |
| | | C-4.1 | of a triangle. | Apply | Practice questions. | |

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| | SCHEME OF V | VORK FOR THE | YEAR 2023-24 | | |
| CLASS | IX | | | | |
| SUBJECT | MATHEMATICS | | | | |
| MONTH | SEPTEMBER | | | | |
| TOPIC | TRIANGLES | | | | |
| COMPETENCIES | C- 3.1 Describes relationships including congruangles, triangles) to make and test conjectures | such as lines, | | | |
| SUB-TOPIC | CONCEPT | COMPETENCIES | LEARNING OUTCOMES | COGNITIVE | ASSESSMENT FOR LEARNING |
| Introduduction Congruence of triangles | Basic properties of triangles, congruent figures , congruent triangles, correspondence, symbols of correspondence and congruence, CPCT | C- 3.1 | Apply the concepts of congruency of triangles and prove congruence between two triangles in a given figure | Apply | Practice worksheets, Oral questions, MCQ |
| Criteria for congruence of triangles SAS | (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence) | C- 3.1 | Illustrate SAS criteria of congruence of triangles through diagrams and prove relationships between given angles,sides and triangles in a given figure | Understand Apply | Practice questions (group work) |
| ASA congruence rule | .(Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA | C- 3.1 | Illustrate ASA criteria of congruence of triangles through diagrams and prove | Understand Apply | Practice questions (group work) |
| AAS congruence rule | any two pairs of angles and one pair of corresponding sides are equal (AAS congruence rule) | C- 3.1 | of congruence of triangles through diagrams and prove | Understand Apply | Practice questions (group work) |
| SSS congruence rule | (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence rule) | C- 3.1 | Illustrate SSS criteria of congruence of triangles through diagrams and prove relationships between given angles, sides and triangles in a given figure | Understand Apply | Practice questions (group work) |
| RHS congruence rule | (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence rule). | C-3.1 | Illustrate RHS criteria of congruence of triangles through diagrams and prove relationships between given angles, sides and triangles in a given | Understand Apply | Practice questions (group work) |
| Some properties of a triangle | Prove:The angles opposite to equal sides of a triangle are equal. (Motivate) The sides opposite to equal angles of a triangle are equal. | C- 3.1 | Using isosceles triangle property and its converse prove the relationship between any given sides or angles in a given figure. | Understand Apply | Practice questions (group work) |

| | PERIODIC TEST 2 - OCT 5th to OCT 16th Chapters 2,4,6,10 | | | | |
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| BHAVAN'S VIDYA MANDIR, ELAMAKKARA- SARITHA .K | | | | | |
| BHAVAN'S VIDYA MANDIR, GIRINAGAR-INDU .S.N | | | | | |
| BHAVAN'S VIDYA MANDIR ,EROOR -INDU P.N | | | | | |
| BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD-JITHA.C | | | | | |
| BHAVAN'S VARUNA VI | DYALAYA-VYJI N.R | | | | |
| BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR-RAJESH.M.N | | | | | |
| BHAVAN'S MUNSHI V | DYASHRAM,THIRUVAMKULAM-SRI | EEREKHA.U | | | |