DAV PUBLIC SCHOOL, THAWE GOPALGANJ
Academic Plan
Session 2019-20
Class-IX

English

APRIL
CHAP-THE FUN THE HAD ,THE LOST CHILD,TENSES
WRITING SKILL-DESCRIPTIVE PARAGRAPH(PERSON AND PLACES) ON THE BASIS OF VISUAL AND VEREBAL INPUT,
ASSIGN-COMPLETION OF EXERCISE AND FAIR NOTE BOOK,LEARNING SPELLING AND WORDSMEANING,PRACTICE OF QUES AND ANS
ACTIVITY –DEBATE-A HUMAN TEACHER IS BETTER THAN A MECHANICAL TEACHER

MAY
CHAP-THE ROAD NOT TAKEN , THE ADVENTURES OF TUTU,DETERMINERS
WRITING- EVENTS
ASSIGN-DO
ACTIVITY-DICTATION TEST,DIALOGUE WRITING BETWEEN TIGER AND MAN

JUNE
CHAP-THE SOUND OF MUSIC, THE WIND ,DETERMINERS,
WRITING- ARTICLE
ASSIGN-DO
ACTIVITY-WORD MEANING CLASS TEST

JULY
CHAP-THE LITTLE GIRL,RAIN ON THE ROOF,A TRULYBEAUTIFUL MIND,ISHWARN-THE STORY TELLER,IN THE KINGDOM OF FOOLS, MODALS
WRITING SKILL-DIARY ENTRY
ASSIGN-DO
ACTIVITY- GRAMMAR TESTS

AUGUST
CHAP-THE LAKE ISLE OF INNISFREE, THE SNAKE & THE MIRROR, A LEGEND OF THE NORTHLAND,THE HAPPY PRINCE,PASSIVE VOICE
WRITING SKILL- WRITING A SHORT STORYBASED ON THE GIVEN OUTLINE OR CLUE
ASSIGN-DO
PRO-MAKE A LIST OF REPORTING VERB

SEPTEMBER

CHAP-NO MEN ARE FOREIGN, MY CHILDHOOD ,WEATHERING THE STORM IN ERSAMA,SUB-VERB CONCORD
WRITING SKILL-= REVISION
ASSIGN- DO
ACTIVITY-DICTATION

OCTOBER
CHAP- PACKING,THE DUKE AND THE KANGAROO, THE LAST LEAF,
GRAMMAR- REPORTING STATEMENT & QUESTIONS
WRITING-DESCRIPTION WRITNIG
ASSIGN-DO

NOVEMBER
CHAP- REACH FOR THE TOP, ON KILLING A TREE, A HOUSE IS NOT A HOME , REPORTING COMMANDS & REQUESTS
WRITING-ARICLE
ACTIVITY-COLLECT SOME EXAMPLES OF INSTRUCTIONS TO DISPLAY IN CLASS

DECEMBER
CHAP- THE BOND OF LOVE ,THE SNAKE TRYING,THE ACCIDENTAL TOURIST,CLAUSES
WRITING SKILL-DIARY
ASSIGN-DO
ACTIVITY –HOW TO LOOK AN INDEX

JANUARY
CHAP-KATHMANDU, IF I WERE YOU, THE BEGGAR, PREPOSITIONS,
WRITING SKILL- SHORT STORY WRITING
ASSIGN-DO
ACTIVITY-USE OF DICTIONARY FOR SAME WORD HAVING DIFFERENT MEANING

FEBRUARY
CHAP-A SLUMBER DID MY SPIRIT SEAL
GRAMMAR – REVISION
WRITING SKILL- REVISION

Months	Topic	Learning outcomes	Home Work	Assignment/Project
April + May	**1. Matter in our surrounding-:** Physical Nature of Matter,Characteristics of particle,States of matter,Effect of change of temperature & Pressure, Evaporation, Boiling and cause	To improve the curiosity among student about particle of matter & difference between states of matter	Select 20 question for Home-assignment.	(1) Differentiate between states of matter (2) Write short notes on effect of change of temperature & pressure
	2. Organism in the living worlds -: Cell-Besic unit of life, Prokaryotic and eukaryotic cell multicellular organism, Cell membrane and cell wall,Mitochondria, vacuoles, endoplasmic reticulum, Golgi-Apparatus, nucleus, chromosomes	The student wants to know about living world and different cell organells		(1) (a) Differential betweem plant cell and animal cell (b) Prokaryotic & Eukaryotic (2) Write short notes on cell organells
	3. Motion-: Distance and displacement, velocity, uniform and non-uniform along straight line, acceleration,distance &velocity-time graph, uniform motion, accelerated motion, derivation of equations of motion by graphical method idea of circular motion			(1) Differentiate between uniform non-uniform by using graphs (2) Derivation of equations of motion by graphical method
		To improve the thinking capacity		
July + August +	**4. Nature of matter-:** Elements, Compound and	**Periodic Test-1 (July)**		(1) Short notes on structure and

| September | mixture, Homogeneous and Hetrogeneous mixture, Colloids and suspension,

5. Tissue, organ, organ system, organism-: Structure & function of animals, plant tissues (only four types of tissue in animals,Merismatic and permanent tissue in plant),

6. Food production-: Plants and animals breeding and selection for quality improvement and management, use of fertilisrs, manure, Protection, from pests and disease, organic farming.

7. Force and Newton's laws-: Force and Motion, Newton's law of motion, Inertia of a body,Inertia and mass, momentum, elementary idea of conservation of momentum, action and reaction force.

8. Gravitation-: Gravitation universal law of gravitation of the earth(gravity), acceleration due to gravity, mass and weight, free ball. | | | function of animals.

(2) Difference between manure and fertiliser |

		To make the students more curious sothat they can know what is gravity and where it becomes zero		
				Solve all numerical related to newton's law of motion &gravitation.
Praticals-: List of Experemets				
	1. To test (a) The presence of starch in the given food sample, (b) The presence of the adulterant metahil yellow dal 2 To prepare (a) true solution (b) a suspension (c) a colloidal solution of starch in water, egg albumin/milk in water and distinguish on basis of- :transparancy, filtration, stability 3. To prepare (a) mixture, (b) Compound using Iron filling and sulphur powder and distinguish between	To make the student creative		(1) Complete the lab. manual done in lab

	these on the basis of-: (i) Apperance (ii) behaviour towards magnet (iii) towards CS_2 as solvent (iv) effect of heat 4. To carry out the following reactions and classify them as a physical and chemical change-: (a) Iron with copper sulphate solution in water (b) burning of magnesium in air (c) Zinc with dil.H_2SO_4 (d) heating of copper sulphate (e) Sodium sulphate with $BaCl_2$ in their solution in water 5. To prepare stained temporary mounts of (a) Onion peel (b) human cheek cells 6. To identify parenchyma & Sclerenchyma			

Second term				
October	**1. Matter – Its nature and behaviour-:** Particle nature, basic units-: Atoms and Molecules, law of chemical combination-: (a) Law of	The students wants to know about sub atomic particle		1. write 5 difference between atoms and molecules

	constant proportion (b) Law of conservation of mass, Atomic and molecular masses. **2. Organism in the living world-:** Biological diversity-: Diversity of plants and Animals, basic issue in scientific naming, basis of classification, Hierarchy of categories/groups, major groups of plants (salient features), Bacteria, Thallophyte,Bryophyta, pteridophyta, gymnosperms, Angiosperms), Majour groups of animals(salient features)(Non-chordates up to phyla and chordates up ot classes). **3. Motion, forces and work** Floatation-: Thrust and pressure, Archimedes principle, buoyancy, elementary idea of relative density. **4. Mole concept-:** relationship of mole to mass of the particales and numbers, valency, chemical formula of common compound. **5. Health and Diseases -:** Health and its failure, Infectious and Non – infectious disease, their	To increase the depth level of student about living world (micro-organism)		2. write down sailent feature of major group of plant

	causes and Menifestation. Disease caused by microbes (Virus, Bacteria and protozoans) and their prevention, principles of treatment and prevention, Principles of treatment and prevention,Pulse Polia Programmes			
	6. Work, energy and Powers-: work done by a force, energy, power, kinetic and potential energy, law of conservation of energy.	The students was curious to know about relation between thrust, force		
	7. Structure of atom-: Electrons, protons, Neutrons, Isotopes and Isobars.			
November	8. Our enviroment Physical resource-; Air,water, Soil-: Air for respiration, for combustion, for moderting temperature, Movement of air and its role in bringing rains across India. Air, water and soil pollution (brief introduction) Holes in ozone layer and the probable damages Bio-grochemical cycles in nature-: Water, oxygen, carbon and nitrogen. **9. Sound-:** Nature of sound and its propagation in various media, speed of sound, range of hearing in human ear (auditory aspect			3. On a chart paper draw the fig. Base on Archimedes principle and explain.

only)				
		The students wants to know about K.E and P.E		4. write short notes on work, power and energy
		The students wants to decrease the pollution level in air		

December.			Select 20 question for Home-Assignment.	
				1. Draw neat and clean diagram of ear

Practical	List of Expriments-: (1) To verify laws of reflection of sound. 2. To determine the density of solid (denser than water) by using spring balance and a measuring cylinder. 3. To establish the relation the loss in weight of a solid when fully immersed in (a) tap water (b) strongly salty water, with the weight of water displaced by it taking at least two different solid. 4. To observe and compare the pressure exerted bya solid iron cuboid on fine	To make the students creative and additive.		2. Complete the lab manual

	sand/wheat flour while resting on its three different faces and to calculate the pressure exerted in the three different cases. 5. To derermine the velocity of a pulse propagate through a stretched string/ slinky. 6. To study the characteristics of spirogyra/Agaricus. Moss/fern, Pinus(either with male or female cone) and an Angiospermic plant. Draw and give two identifying features of groups 7. To observe and draw the given pictures/ charts/Models-earthworm,cockroach,bony fish and bird. For each organism record-: (a) One specific features of its phylum. (b) One adaptive features with reference to its habitat. 8. To verify the law of conservation of mass 9. To study the external features of root, stem, leaf and flower of monocot and dicot plants . 10. To study the life cycle of mosquito.			

विषय– हिन्दी

माह का नाम	विषय वस्तु	व्याकरण खण्ड	गृहकार्य	परियोजना कार्य
अप्रैल	(1) 'दो बैलों की कथा' (2) साखियाँ एवं सबद	उपसर्ग,प्रत्यय अलंकार– अनुप्रास,यमक श्लेष	1 'दो बैलों की कथा' को संक्षेप में लिखें। 2 कबीर का जीवनवृत लिखें।	1 पशु पक्षियों के प्रति सामाजिक चेतना को जागृत करने के लिए दस–दस स्लोगन लिखें।
मई	3 'ल्हासा की ओर' 4 'वाख' 5 'सवैये'	प्रत्यय, अलंकार– उपमा,रूपक,उत्प्रेक्षा, अतिश्योक्ति	1 अपनी यात्रा वृतांत लिखें। 2 रसखान के सवैये स्मरण करें। 3 अलंकारों की परिभाषा उदाहरण सहित लिखें।	1 रसखान के सवैये चार्ट पेपर पर लिखें। 2 अलंकार की परिभाषा उदाहरण सहित लिखें।

जून	6 'उपभोक्तावाद की संस्कृति।' 7 'इस जल प्रलय में।'	समास अपठित गद्यांश	1 समास व भेदों की परिभाषा उदाहरण सहित लिखें। 2 'इस जल प्रलय में' शीर्षक कविता स्मरण करें।	1 समास व भेदों की परिभाषा चार्ट पेपर पर उदाहरण सहित लिखें।
जुलाई	8 'साँवले सपनों की याद' 9 'कैदी और कोकिला'	अर्थ की दृष्टि से वाक्य भेद ।	अर्थ की दृष्टि से परिभाषा लिखें एवं स्मरण करें।	अर्थ की दृष्टि से वाक्य भेद की परिभाषा चार्ट पेपर पर सजाकर लिखें।
अगस्त	10 'ग्राम श्री' 11 'मेरे संग की औरतें'	अलंकार, अपठित पद्यांश	1ग्राम श्री कविता स्मरण करें। 2 अलंकारों की परिभाषा स्मरण करें।	1 'ग्राम श्री' कविता को चार्ट पेपर पर सजाकर लिखें।
सितम्बर	12 'रीढ़ की हड्डी'	प्रत्यय, समास, पत्र लेखन	प्रत्यय एवं समास की	' रीढ़ की हड्डी'

			परिभाषा स्मरण करें।	एकांकी के आधार पर दहेज प्रथा पर अपना विचार लिखें।
अक्टूबर	13 'नाना साहब की पुत्री मैना देवी को भस्म कर दिया गया।' 14 'चन्द्र गहना से लौटती बेर' 15 'प्रेमचन्द्र के फटे जुते'	उपसर्ग, प्रत्यय ,अपठित गद्यांश	प्रश्नोत्तर लिखें एवं स्मरण करें। 'चन्द्र गहना से लौटती बेर' कविता स्मरण करें।	'नाना साहब' का जीवन वृत लिखें।
नवम्बर	16 'मेघ आए' 17 'मेरे बचपन के दिन' 18 'यमराज की दिशा'	,अपठित गद्यांश,समास	मेघ आए कविता का भावार्थ लिखें। 'यमराज की दिशा' कविता का भावार्थ लिखें।	'मेघ' पर एक कविता लिखें।
दिसम्बर	19 'माटीवाली'	वाक्य व भेद निबंध लेखन	'माटी वाली' का चरित्र	'बालश्रम' विषय पर

	विषय वस्तु	व्याकरण खण्ड	परियोजना कार्य	गृह कार्य
	20 'एक कुत्ता और एक मैना' 21 'बच्चे काम पर जा रहें हैं।'		चित्रण अपने शब्दों में लिखें।	अपना विचार 200–250 शब्दों में लिखें।
जनवरी	22 'किस तरह आखिर मैं हिन्दी में आया'	संवाद लेखन एवं पत्र लेखन	औपचारिक एवं अनौपचारिक पत्र लेखन का अभ्यास करें।	शमशेर बहादुर सिंह की जीवनी अपने शब्दों में लिखें।
फरवरी	पठित पाठों की पुनरावृति।	व्याकरण खण्ड की आवृति	उत्तरपुस्तिका पूर्ण करें	सम्पूर्ण पाठ्यक्रम की आवृति।

संस्कृत

मह एव दनामक	विषय वस्तु	व्याकरण खण्ड	परियोजना कार्य	गृह कार्य
अपैल दिनांक द्वितीय पाठ	भारतवसन्त गोॕतिं भारतीवसन्तगीतिं इति पाठस्य अर्थ वोघनम उच्चारण गायन भावार्थ ! स्वर्ण काक	वाक्ये कर्त्‌ किया पद चयनम कर्व किया अन्विति वि ेश्य वि ेशण चयनम सर्वनाम प्रयोग पर्याय विलोम चयनम	क्त किया कर्म इति विशये पुस्तके लिखन्तु तथा च अनुवाद प्रकिया प्रारम्भ कियते ! वाक्ये वि ेश वि ेशण भाब्दयो चित्वा लिखन्तु !	भारती वसन्तगीतिं इति गीतिं सवै छात्रा अभ्यास कुर्वन्तु ! स्वर्ण काक इति पाठस्य अभ्यास पुस्तके लिखन्तु !
तृतीय पाठ	सोमप्रभा	संकेताधारित औपचारिक अथवा अनौपचारिक पत्र	औपचारिक पत्रकअभ्यासपुस्तक सहयतया पुर्णन्तु !	अभ्यास पत्रम पुर्णयन्तु !
मई	कल्पतरु	हिन्दी भाषायाम आङ्ग्लभाषा वा लिखितानाम	स्वभाशायाम सामानार्थक प्रयोगमन्चित जिहम	कल्पतरु इति पाठस्य

		पंचसरल वाक्यानाम संस्कृत भाषायाम अनुवाद	चालायति ।	अभ्यास कार्य कुर्वन्तु
चतुर्थ पाठ	सूक्ति मौक्तिम	वर्तनी वर्ण संयोजनम वर्णविच्छेदस्य उच्चारण स्थानानि ।	चार्ट पत्रे वर्णानाम स्थानानि उच्चारण स्थानानि प्रयोग लिखिते ।	सुत्राणाम वार्णानाम उच्चारण स्थानं लिखत ।
जून इ्ठ पाठ	भ्रान्तोबाल	स्वर संधि गुण वृदि दीर्ध यण अयादि । म् स्थाने अनुस्वार णत्व विधानम । वर्गीर्य प्रथम् अक्षाणां ततीय वर्णानाम परिवर्तनम¬	सधे परिभाशा बृहद् रूपेण लिखन्तु ।	स्वर संधि गुण वृदि दीर्ध यण अयादि पंच पंच उदाहरण लिखन्तु ।
जुलाई सप्तम पाठ	प्रत्यभ्जिानम	त स्थाने ल र पूर्वस्य रेफस्य लोप दीर्ध स्वरसय च	प्रयोग रुपेण शब्द सिदि चार्ट पत्रे ।	प्रत्यभ्जिानम इति पाठस्य अभ्यास कार्य स्व पुस्तके लिखितम ।
अगस्त अश्टम् पाठ	लौह तुला	विसर्ग सन्धि ् उत्व सन्धि रत्व पुल्लिंग भाब्द् अकारान्ता बालकवत् इकारान्त नदीवत्	पुस्तके बालक भाब्द रूप लिखत । तथा च एताद् अन्ये अपि रूपं लिखत।	लौह तुला इति पाठस्य अभ्यास कार्ये पूर्णयन्तु।
सितम्बर नवम् पाठ	थ्सकतासेतु	अकारान्त फलवत् इकारान्त वारिवत् सर्वनाम् भाब्दा तत् किम् त्रिशु लिगेशु ।संख्या वाचक भाब्दा एकत चर्तुपर्यन्तम्	फल,नदी,इदम्,एतद्, भाब्दस्य रूपं लिखन्तु।	सिकतासेतु इति पाठस्य अभ्यास कार्य कुरूत्।
अक्टूबर द म्पाठ	जटायो भौर्यम्	परस्मैपद धातो अस्, भू ,पठ्, सेव्,लभ् लट् ,लट्	पूर्णवाक्येन च प्र नोतरााणि भाशिक च	पयार्यपदानाम् विलोमपदानाम् वा मेलनम् अथवा वाक्येशुप्रयोग।
नवम्बर एकाद पाठ	पर्यावरण	द्वितिया समया, प्रति,धिक्,बिना,अलम्,, त्तिया बिना,सह, चतुर्थी कुप्,नम् ,स्वाहा,स्वस्ति	भलोकान्चय	
दिसम्बर द्वाद पाठ	वाङ्मय प्राणस्वरूपम्	प्ंचमी ऋते,बहि,अन्तरम्,भी, इ्ठी अन्त,उपरि,पुर,अध, सप्तमी प्रवीण,चतुर,श्रेणीनिधारणम्	औपचारिक अथवा अनौपचारिक पत्रम् चित्रम् चित्रवर्णनम् अथवा अनुच्छेद लेखनम	ज्लम् एव जीवनम् इति विशयम् अधिकृत्य मंजूशायाम् पदत भाब्दानाम् सहायतया पंचवाक्यानि संस्कतेन लिखत्।
जनवरी कारक	डपपद विभक्ती	प्रथमा पर्यन्त सम्बोधनक कारक	डपपद विभक्ति उर्पयुक्त पदानाम् वाक्यानि रचयत्।	चार्ट पत्रे संख्या वाचि भाब्दानाम् लिखत।

परिचय				
फरवरी भाषा शिक्षण	सरल वाक्यानाम् अनुवाद भाषाशिक्षणस्य प्रमुखो गुण वर्तते। य भाषान्तरेअनुवादं कर्तु भांक्नोति स परस्परं तुलनया।	अत्र कर्तु किया कारक उपपद विभक्तीनाम् विशये एकाग्रता अपकंक्ष्यते।	पत्रस्य मूल विशय प्रति पादनात् अन्नतरम् वैयक्ति भवति।	पत्र लेखन कला प्राचीन कालादेव प्रसिद्धा आधुनिकयुगे अपि च महत्वपूर्णा।

Social Studies

Months / Days	History	Civics	Geography	Economics	Assignment / Project
April	**I. The French Revolution:** ☐ French Society During the Late Eighteenth Century ☐ The Outbreak of the Revolution ☐ France Abolishes Monarchy and Becomes a Republic	**1. What is Democracy? Why Democracy?:** ☐ What is Democracy? ☐ Features of Democracy	**Ls.1 India-** • Size and Location • India and the World • India's Neighbours		**Map Work- Represent on map** 1. India-States with Capitals, Tropic of Cancer, Standard Meridian (Location and Labelling) **Chapter-1: The French Revolution** Outline Political Map of France (For locating and labeling / Identification) ☐ Bordeaux ☐ Nantes ☐ Paris ☐ Marseilles
May	**I. The French Revolution:** ☐ Did Women have a	**1. What is Democracy? Why**	**Ls.2 Physical Features of India** • Major	**Ls.1 The village of Palampur**	**Map Work- Represent on map** • Mountain

	Revolution? ☐ The Abolition of Slavery ☐ The Revolution and Everyday Life	**Democracy?:** ☐ Why Democracy? ☐ Broader Meaning of Democracy	Physiographic Divisions	• Overview • Organization of production • Farming in Palampur • Non-farm activities of Palampur	Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats ☐ Mountain Peaks – K2, Kanchan Junga, Anai Mudi ☐ Plateau - Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau ☐ Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)
June	**II. Socialism in Europe and the Russian Revolution:** ☐ The Age of Social Change ☐ The Russian Revolution	**2. Constitutional Design:** ☐ Democratic Constitution in South Africa ☐ Why do we need a Constitution?	**Ls.2 Physical Features of India** Continue....	**Ls.2 People as Resource** • Overview • Economic activities by men and women • Quality of Population • Unemployment	**Chapter-2: Socialism in Europe and the Russian Revolution** Outline Political Map of World (For locating and labeling / Identification) • Major countries of First World War (Central Powers and Allied Powers) *Central Powers* - Germany, Austria-Hungary, Turkey (Ottoman Empire) *Allied Powers* - France, England, Russia, U.S.A.
July	**II. Socialism in Europe and the Russian Revolution:**	**2. Constitutional Design:** ☐ Making	**Ls3. Drainage** • Major rivers and	**Ls.2 People as Resource** Continue.....	• Rivers: (Identification only) o *The Himalayan River Systems*-The

Month	History	Civics	Geography	Economics	Map Work
	☐ The February Revolution in Petrograd ☐ What Changed after October?	of the Indian Constitution ☐ Guiding Values of the Indian Constitution	tributaries • Lakes • Role of rivers in the economy • Pollution of rivers		Indus, The Ganges, and The Satluj ○ *The Peninsular rivers*-The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi ☐ Lakes: Wular, Pulicat, Sambhar, Chilika
August	**II. Socialism in Europe and the Russian Revolution:** ☐ The Global Influence of the Russian Revolution and the USSR	**3. Electoral Politics:** ☐ Why Elections? ☐ What is our System of Elections? ☐ What makes elections in India democratic?	**Ls. 4 Climate** • Concept • Climatic Controls • Factors influencing India's climate		
September	Revision				
October	**III. Nazism and the Rise of Hitler:** ☐ Birth of the Weimar Republic ☐ Hitler's Rise to Power	**4. Working of Institutions:** ☐ How is the major policy decision taken?	**Ls. 4 Climate** • The Indian Monsoon • Distribution of Rainfall • Monsoon as a unifying bond	**Ls.3 Poverty as Challenge** • Two typical cases of poverty • Poverty as seen by Social Scientists	**Map Work- Represent on map** Areas receiving rainfall less than 20 cm and over 400 cm (Identification only)

November	**III. Nazism and the Rise of Hitler:** ☐ The Nazi Worldview ☐ Youth in Nazi Germany ☐ Ordinary People and the Crimes Against Humanity	**4. Working of Institutions:** Parliament ☐ Political Executive ☐ Judiciary	Ls.5 Natural Vegetation and Wild life of India • Factors affecting Vegetation • Vegetation types	**Ls.3 Poverty as Challenge** • Poverty Estimates • Vulnerable Groups • Interstate disparities • Global Poverty Scenario • Causes of Poverty • Anti-poverty measures • The Challenges Ahead	• Vegetation Type: Tropical Evergreen Forest, Tropical Deciduous Forest, Thorn Forest, Montane Forests and Mangrove- For identification only ☐ National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas ☐ Bird Sanctuaries: Bharatpur and Ranganthitto ☐ Wild Life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (Location and Labelling)
November	**IV. Forest Society and Colonialism:** ☐ Why Deforestation? ☐ The Rise of Commercial Forestry	**5. Democratic Rights:** ☐ Life without rights ☐ Rights in a Democracy	**Ls.5 Natural Vegetation and Wild life of India** • Wild Life • Conservation	**Ls.4 Food security of India** • Overview • What is Food Security? • Why Food Security? • Who are food insecure?	**Chapter-3: Nazism and Rise of Hitler** Outline Political Map of World (For locating and labeling / Identification) ☐ Major countries of Second World War ***Axis Powers*** – Germany, Italy, Japan ***Allied Powers*** – UK, France, Former USSR, USA ☐ Territories under German expansion

					(Nazi Power) Austria, Poland, Czechoslovakia (only Slovakia shown in the map), Denmark, Lithuania, France, Belgium
December	**IV. Forest Society and Colonialism:** ☐ Why Deforestation? ☐ The Rise of Commercial Forestry ☐ Rebellion in the Forest ☐ Forest Transformations in Java	**5. Democratic Rights:** ☐ Rights in the Indian Constitution ☐ Expanding the scope of rights	**Ls.6 Population** • Size • Distribution • Population Growth and Process of Population Change	**Ls.4 Food security of India** • Food Security in India • What is Buffer Stock? • What is the Public Distribution System? • Current Status of Public Distribution System	Recording in a weather chart and analyzing in a graph
January			**Ls.6 Population** • Population Growth and Process of Population Change		**Map Work- Represent on map** • The state having highest and lowest density of population ☐ The state having highest and lowest sex ratio ☐ Largest and smallest state according to area

February	Revision of Entire Syllabus				

COURSE STRUCTURE: CLASS – IX

Month	Unit	Content	Practical/ Project
April	**Computer System**	➢ Introduction ➢ Computers and Us ➢ Convergence of Technologies ➢ Overview of Communication Technologies ➢ What is a Computer ? ➢ Functioning of a Computer ➢ Functional Components of a Computer System ➢ CPU-The Computer's Brain . ➢ Characteristics of a Computer ➢ Types of Computers ➢ Types of Digital Computers	Introduction to working on computer system. Draw a block diagram of computer system

	Types of Hardware	➢ Introduction
		➢ Computer System -An Overview
		➢ Memory in a Computer System
		    o *Units of Memory*
		    o *Main (Primary)_ Memory*
		    o *Storage Devices (Secondary Memory Devices)*
		➢ Input Devices
		Output Devices
			Introduction about all Input/Output devices and memory unit like RAM, ROM, HDD, CDROM, Pen-drive etc.
			
			Differentiate between Input and Output Devices

	Types of Software	➢ Introduction
		➢ Types of Software
		➢ System Software
		    o *Operating System*
		    o *Language Processor (Translators)*
		    o *Utility Software (Utilities)*
		➢ Application Software
		    o *General Purpose Application Software*
		    o *Specific Purpose Application Software*
		    o *Mobile Application - A Type of Application Software*
		    o *Customized (Bespoke) Software*
			use the mouse _and keyboard, draw a figure

May-June	**Basics of Operating Systems**	➢ Introduction
		➢ Basic Concepts of Operating System
		    o *Role of Operating System*
		➢ Need for Operating System
		➢ Operating Systems - Shell and Kernel
		➢ Functions of Operating System
		➢ Device Drivers
		➢ Types of Operating Systems
		    o *Operating Systems based on Types of Interfaces*
		➢ Commonly Used Operating Systems
		➢ File System
			Navigation of the file system using a mouse and keyboard, and then doing the same With shell. Commands
			
			Draw the desktop environment of computer system with definition.

July	**Computer Networking, Multimedia Basics**	➢ Introduction
		➢ What is a Network ?
		➢ Types of Networks
		    o *Local Area Network (LAN)*
		    o *Metropolitan Area Network (MAN)*
		    o *Wide Area Networks (WAN)*
		    o *Internet*
		➢ Communication in Networks - Communication/Transmission Media
		➢ Cloud Computing
		➢ Multimedia
		➢ Social Networking
			Introduction to LAN Cable RJ-45, CAT-5 and CAT-6
			IP Address formation,
			
			Draw different TOPOLOGIES of LAN

August	**Cyber Safety**	➢ Introduction
		➢ What is Cyber Safety ?
		➢ Identity Protection while Using Internet
		    o *Many Ways Websites Track you*
		    o *Private Browsing and Anonymous Browsing*
		➢ Proper Usage of Passwords
		    o *Ways in which your Password may be Cracked*
		    o *Choosing Good Passwords*
		➢ Confidentiality of Information
		    o *Practices to Ensure Confidentiality of Information*
		➢ Online Safety
		    o *Damage Caused by Malware*
		    o *Safety Measures*
		➢ Cyber Crime
		    o *Reporting a Cyber Crime*
			Rules of Password creation, precaution for cracking password
			
			Prepare a project on Cyber Crime, how to prevent it.

Month	Topic	Content	Activities

September	Open Office.org Writer - I	➢ Introduction
		➢ Introducing to a Word Processor
		   o *Features of Word Processors*
		➢ Getting Started With Word Processor
		   o *Getting Started with OOo Writer*
		➢ Word Processing Terminology
		   o *Margins*
		   o *Word Wrapping*
		   o *Indentation*
		   o *Fonts, Styles and Sizes*
		   o *Text Alignment*
		   o *Line Spacing*
		   o *Page Orientation*
		   o *Headers and Footers*
		➢ Editing a Document
		   o *Navigating in the Document*
		   o *Text Selection*
		➢ Formatting a Document
		   o *Character Formatting*
		   o *Paragraph Formatting*
		   o *Page Formatting*
			Create a text document, letter, report,greeting card. Changing Font, Size and Style of the text Inserting Header and Footer Formatting Page and Paragraph
			
			Design an application to your class teacher with given formatting specifications.

October	Open Office.org Writer - II	➢ Introduction
		➢ Creating Bulleted or Numbered Lists
		   o *Nested Lists*
		   o *Formatting Lists*
		➢ Using Grammar and Spell Check
		➢ Inserting Graphics in Writer
		   o *Inserting Autoshapes*
		   o *Inserting Graphic Txt Art*
		   o *Inserting Pictures fro m File/ Gallery*
		➢ Find and Replace
		   o *Find Text*
		   o *Replace Text*
		➢ Printing and Getting Help
		   o *Printing*
		   o *Getting Help in Writer*
		➢ Working with Tables
		   o *To Insert a Table using Table Button*
		   o *To Insert a Table using the Insert Menu*
		   o *Moving in a Table*
			Create list with Bullet and Number, Check Spelling and grammatical error of the document,
			
			Find and replace text and special object, Inserting Table and printing files.

| November – December | Presentation Tool : OO Impress | ➢ Introduction
➢ Introduction to Presentation Graphics
    o *Slide Show*
➢ Steps to Impress Presentation
    o *Starting Impress*
➢ Presentation Tips
➢ Physical Aspects of a Presentation
    o *Basic Elements of a Slide*
    o *Slide Components Used for Reference*
    o *What All can You Create in Impress ?*
➢ Creating New Presentation
    o *Creating Empty Presentation*
    o *Creating Presentation from Design Template*
➢ Different Views of a Slide
➢ Adding New Slides
    o *Different Types of Slide Layouts*
➢ Editing and Formatting a Slide
    o *Selecting New Design*
    o *Changing Background Colour and Shading*
    o *Changing Text Font and Style*
➢ Headers and Footers
    o *Slide Master*
    o *Adding Header and Footer through Slide Master*
    o *Adding Predefined Header/ Footer Objects - Slide Number, Date and Time*
➢ Adding Illustrations to Slides
    o *Create a Slide Having ClipArt Picture*
    o *Inserting Pictures*
    o *Inserting a Watermark Picture*
➢ Grouping/Ungrouping Objects
➢ Working in Slide Sorter View
    o *Rearranging Slides*
    o *Copying and Deleting Slides*
➢ Inserting Music or Sound on a Slide
➢ Creating Slide Shows
    o *Add Transitions to a Slide Show*
    o *Animate Text and Objects*
    o *Set and Rehearse Slide Timings*
    o *View Slide Show* | Create a presentation. Create a presentation with animation.

Create and edit existing images, and then include them in a presentation.

Animate pictures and text with sound effects in a presentation.

Setup Slide Show, Arrange slide using Different views of presentation, Display Presentation. |

Month	Topic	Content	Practical/Activity

January	**Spreadsheet Tool : OO Calc - I**	➢ Introduction
		➢ Calc Spreadsheet Basics
		   o *Working in Spreadsheets*
		➢ Editing Cell Contents
		   o *Copying a Range*
		   o *Moving Range*
		   o *Erasing I Clearing Ranges I Deleting Contents*
		   o *Naming a Range*
		   o *Filling a Range*
		   o *Filling by Dragging Fill Handle*
		➢ Commands for Worksheet/Workbook
		   o *Saving a Workbook*
		   o *Retrieving a Workbook*
		   o *Erasing a Worksheet*
		   o *Quitting From a Workbook*
		   o *Inserting Cells Row/Column in a Worksheet*
		   o *Deleting Cells/Rows/Columns*
		➢ Some Useful Functions
			Create a simple spreads and perform the following operations: min, max, sum, and average.
			Edit, Insert and delete Row, Column and cells
			
			Create Invoice of a City Mall with given product, price, unit, amount, discount%, GST and final Amount

February	**Spreadsheet Tool OO Calc – II**	➢ Introduction
		➢ Formatting Data
		   o *Formatting Numbers*
		   o *Formatting Text*
		➢ Charts in OO Calc
		   o *Chart Types of OO Calc*
		   o *Components of a Chart*
		   o *Creating a Chart in OO Calc*
		➢ Printing Worksheets/Charts
		   o *Print Sheet(s)/ Range/ Entire Workbook*
			Formatting cells and worksheet, inserting several types of charts, Print specific and entire range of worksheet

March	**Scratch Programming (Alternative -1 of Unit –IV)**	➢ Introduction
		➢ Introducing Scratch 2.0 Software Program/Script Structure in Scratch
		➢ How to Program in Scratch?
		➢ Motion Blocks
		➢ Directions in Scratch
		➢ Design Elements: Backdrops and Sprites
		   o *Changing Backdrop in Scratch*
		   o *Changing Sprite in Scratch*
		➢ Pen Blocks in Scratch
		➢ Block Types and their Usage
		➢ Introducing XV Planes
			Introduction of Sprite and different blocks of scratch.
			Data, variable, looping controls, designing and running project

March	Introducing Python (Alternative 2 of Unit-IV)	- Introduction - Working in Python *Working in Interactive Mode* *Working in Scrip t Mode* - Basic Data Types *Numbers* *Strings* - Arithmetic Operators in Python *Arithmetic Operators* - Simple Input and Output *The raw_input( ) Function* *The input( ) Function* *Output Through print Statement* - Careers in IT	Different types of data, operators used in Scratch, Creating and executing program in Scratch. Some important function of Scratch