

VISHWA BHARATI PUBLIC SCHOOL, GREATER NOIDA

SYLLABUS CLASS-X , SESSION 2023-24

Subject -ENGLISH LANGUAGE & LITERATURE

TEXTBOOKS -I) LITERATURE READER (FIRST FLIGHT)

II) SUPPLEMENTARY READER (FOOTPRINTS WITHOUT FEET)

MONTH	TOPIC		SUB-TOPIC	LEARNING OBJECTIVES
APRIL	FIRST FLIGHT 1. A LETTER TO GOD 2. NELSON MANDELA - A LONG WALK TO FREEDOM SUPPLEMENTARY- 1. A TRIUMPH OF SURGERY	POETRY i) DUST OF SNOW ii) FIRE AND ICE ACTIVITY- ROLE –PLAY (BASED ON CHAPTER NELSON MANDELA I'm in LA)	WRITING SKILLS FORMAL LETTER- LETTER TO THE EDITOR INTEGRATED GRAMMAR EDITING OMISSION GAP FILL REPORTED SPEECH	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> DEVELOP CURIOSITY AND CREATIVITY THROUGH EXTENSIVE READING AND EXPLANATION BY THE TEACHER TO BUILD GREATER CONFIDENCE AND PROFICIENCY IN ORAL AND WRITTEN COMMUNICATION RECALL THE FORMAT OF LETTER WRITING AND LOGICALLY DEVELOP ANSWERS APPROPRIATELY
MAY	FIRST FLIGHT 3. TWO STORIES OF FLYING I & II 4. FROM THE DIARY OF ANNE FRANK SUPPLEMENTARY- 2. THE THIEF'S STORY	iii) A TIGER IN THE ZOO iv) HOW TO TELL WILD ANIMALS ACTIVITY-EXTEMPORANE	WRITING SKILLS FORMAL LETTER- PLACING AN ORDER INTEGRATED GRAMMAR EDITING OMISSION GAP FILL SUB-VERB CONCORD	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> DEVELOP THE ABILITY AND KNOWLEDGE REQUIRED TO ENGAGE IN UNDERSTANDING THE LANGUAGE USED AND TO COMMUNICATE IDEAS EFFICIENTLY TO IMPROVE THEIR COMPREHENSIBLE TECHNIQUES USING PROPER INTONATIONS WHILE RECITING POEMS TO ENABLE STUDENTS TO EXPRESS ANSWERS ON THEIR OWN
JULY	FIRST FLIGHT 5. GLIMPSES OF INDIA - BAKER FROM GOA - COORG - TEA FROM ASSAM	v) THE BALL POEM ACTIVITY- DEBATE	WRITING SKILLS FORMAL LETTER- ENQUIRY - COMPLAINT INTEGRATED GRAMMAR EDITING OMISSION GAP FILLING TENSES	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> RECALL THE GRAMMAR TOPICS PRACTISED EARLIER SO AS TO REINFORCE THE TOPICS TO FACILITATE, SELF-EXPRESSIONS, DEVELOP SENTENCE-STRUCTURES WITH APPROPRIACY IN ATTEMPTING TEXT AND EXTRA QUES-ANS AND TOPICS RELATED TO WRITING SKILLS

	SUPPLEMENTARY- 3. THE MIDNIGHT VISITOR 4. A QUESTION OF TRUST			
AUGUST	FIRST FLIGHT 6. MIJBIL THE OTTER SUPPLEMENTARY 5. FOOTPRINTS WITHOUT FEET 6. THE MAKING OF A SCIENTIST	vi) AMANDA vii) THE TREES ACTIVITY- ARTICLE WRITING (ON CURRENT AFFAIRS) ACTIVITY- ASL (LISTENING)	WRITING SKILLS ANALYTICAL PARAGRAPH INTEGRATED GRAMMAR EDITING OMISSION GAP FILL SENTENCE REORDERING MODALS DETERMINERS	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> EXPLORE THE ANALYTICAL PARAGRAPH WRITING AND EXPRESS WITH SOME FLEXIBILITY AND APPROPRIACY TO DEVELOP ANSWERS FULLY AND COHERENTLY TO ENABLE THE STUDENTS TO RECALL AND REVISE THE GRAMMAR TOPICS
SEPTEMBER	FIRST FLIGHT 7. MADAM RIDES THE BUS SUPPLEMENTARY 7. THE NECKLACE HALF YEARLY EXAM COMMENCES	viii) FOG ACTIVITY- ASL (SPEAKING)	WRITING SKILLS REVISION - ANALYTICAL PARAGRAPH, ALL THE 4 FORMAL LETTERS COMPREHENSION- PROSE & POETRY REVISION	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> REVISE AND RECALL THE DIFFERENT FORMS OF STRUCTURING ANSWERS AND FRAMING IT LOGICALLY WHILE COMMUNICATING IDEAS TO REVISE THE CORRECT FORMAT OF WRITING SKILLS-FORMAL LETTER & ANALYTICAL PARAGRAPH
OCTOBER	FIRST FLIGHT 8. THE SERMON AT BENARES SUPPLEMENTARY 8. BHOLI	ix) THE TALE OF CUSTARD THE DRAGON	REVISION COMPLETE SYLLABUS OF WRITING SKILLS REVISION INTEGRATED GRAMMAR	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> REVIEW, ORGANISE AND EDIT THEIR OWN WORK WHILE ATTEMPTING THE QUES-ANS AFTER DETAILED EXPLANATION AND CLASS DISCUSSION TO BE ABLE TO READ AND COMPREHEND THE POEM AND ATTEMPT A SUMMARY USING ENOUGH VOCABULARY TO EXPRESS THEMSELVES
NOVEMBER	FIRST FLIGHT 9. THE PROPOSAL (PLAY)	x) FOR ANNE GREGORY REVISION	REVISION FORMAL LETTERS & ANALYTICAL PARAGRAPH	STUDENTS WOULD BE ABLE TO: <ul style="list-style-type: none"> TO FOCUS ON COMMUNICATING PROFICIENTLY AND TO

	SUPPLEMENTARY 9. THE BOOK THAT SAVED THE EARTH		REVISION GRAMMAR	ACQUIRE VARIOUS IDEAS WHILE ATTEMPTING LITERATURE SUMMARY AND EXTRA QUES ● TO DEVELOP CURIOSITY AND CREATIVITY THROUGH EXTENSIVE READING AND PRACTICE
DECEMBER	REVISION PRE-BOARD II	REVISION	FULL INTEGRATED SYLLABUS	STUDENTS WOULD BE ABLE TO: ● FACILITATE SELF-LEARNING TO ENABLE THEM TO BECOME INDEPENDENT LEARNERS
JANUARY	REVISION, PREBOARD			
FEBRUARY	REVISION, BOARD EXAMS			

Subject -Hindi

	खंड	उपखंड	अधिगम प्रतिफल
मार्च – अप्रैल	स्पर्श (पद्य) स्पर्श (गद्य) व्याकरण अपठित	कबीर की साखी , मीरा के पद बड़े भाई साहब पदबंध अपठित गद्यांश	-विपरीत परिस्थितियों में सोच विचार कर उचित - अनुचित की परख करना -व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास
मई	स्पर्श (गद्य) संचयन व्याकरण रचनात्मक लेखन अपठित क्रियात्मक गतिविधि	डायरी का एक पन्ना, हरिहर काका मुहावरे औपचारिक पत्र लेखन, विज्ञापन लेखन, ई-मेल लेखन अपठित गद्यांश किंहीं तीन स्वतंत्रता सेनानियों की भारतीय स्वतंत्रता आंदोलन में योगदान से संबंधित जानकारी एकत्रित करें।	- प्रेम के महत्व से अवगत करवाना -पत्र लेखन की शैली को विकसित करना -व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास

जुलाई	स्पर्श (पद्य) व्याकरण रचनात्मक लेखन अपठित	मनुष्यता, तातोंरा वामीरो कथा समास तथा उसके भेद लघु कथा लेखन, ई-मेल लेखन अपठित गद्यांश	-पशु प्रवृत्ति छोड़कर दीन हीन की सहायता के लिए प्रेरित करना -व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास
अगस्त	स्पर्श (पद्य) स्पर्श (गद्य) संचयन रचनात्मक लेखन अपठित	पर्वत प्रदेश में पावस, अब कहाँ दूसरों के दुखी होने वाले सपनों के से दिन अनुच्छेद लेखन अपठित गद्यांश	-कल्पना शक्ति व मौलिकता का विकास करना -पठन कौशल का विकास

	क्रियात्मक गतिविधि	मीरा के अन्य पदों का संकलन करें। अर्द्ध वार्षिक परीक्षा	
सितंबर	स्पर्श (पद्य) स्पर्श (गद्य) व्याकरण रचनात्मक लेखन अपठित	तोप तीसरी कसम के शिल्पकार शैलेंद्र रचना के आधार पर वाक्य रूपांतरण, मुहावरे सूचना लेखन अपठित गद्यांश	-देशभक्ति की भावना का संचार -व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास
अक्टूबर	स्पर्श (पद्य) स्पर्श (गद्य) संचयन व्याकरण रचनात्मक लेखन अपठित क्रियात्मक गतिविधि	कर चले हम फिदा पतझर में दूटी पत्तियाँ टोपी शुक्ला मुहावरे अनुच्छेद लेखन, विज्ञापन लेखन, ई-मेल लेखन अपठित गद्यांश कविता वाचन, दोहा वाचन	-तनाव से जूझना भावनाओं से जूझना निर्णय लेने की क्षमता का विकास -व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास

नवंबर	स्पर्श (पद्य) स्पर्श (गद्य) व्याकरण रचनात्मक लेखन	आत्मत्राण कारतूस समास तथा उसके भेद औपचारिक पत्र लेखन अपठित गद्यांश पूर्व वार्षिक परीक्षा –1	-व्याकरण का व्यावहारिक ज्ञान देना -पठन कौशल का विकास -पत्र लेखन की शैली को विकसित करना
दिसंबर		सम्पूर्ण पाठ्यक्रम अभ्यास	
जनवरी		पूर्व वार्षिक परीक्षा –2	

Subject –Mathematics

TEXT BOOK PRESCRIBED: Mathematics for class X by NCERTSubject -Sanskrit

विश्वभारती पब्लिक स्कूल नोएडा

कक्षा – दशमी

विषयम् – संस्कृतम्

वार्षिकपाठ्यक्रमः 2023 – 2024

पाठ्यपुस्तकानि – मणिका द्वितीयो भागः, कोड सङ्ख्या - 119

सरस्वती संस्कृतव्याकरणम् कक्षा दशमी,

मास	इकाई	उपविषयः	गतिविधयः
अप्रैल	पाठ २ व्यञ्जन सन्धिः रचनात्मककार्यम् अपठितगद्यांशः समयः / वाच्य	तपः। अन्वयः, पदपरिचयः, अभ्यासकार्यम्, सन्धिविच्छेदः। प्रागसमं सुखम्। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । तुकागमः, मोऽनुस्वारः, वर्गीयप्रथमक्षरणाम् तृतीयवर्णे परिवर्तनम्; अनुस्वारवर्णस्य पञ्चमवर्णे परिवर्तनम्। चित्र लेखनम्, पत्र लेखनम्, संवाद पूर्तिः / कथापूर्तिः । अपठितगद्यांशाधारित – एकपदेन, पूर्णवाक्येन तथा निर्देशानुसारेण उत्तरत। सामान्य, सपाद, सार्ध, पादोन। केवलम् लट् लकारे। (कर्तृ – कर्म – क्रिया)	पाठ माध्यमेन छात्रान् प्रति वाणेः महत्त्वम् प्रतिपादनीयम्।

मई	पाठ ३ पाठ ४ रचनात्मककार्यम् प्रत्ययः अपठितगद्यांशः अशुद्धिसंशोधनम् अव्ययः	रमणीया हि सृष्टिः एषा। पदपरिचयः, अभ्यासकार्यम्, सन्धिविच्छेदः। आज्ञा गुरुणां हि अविचारणीया। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । चित्र लेखनम्, पत्र लेखनम्, संवाद पूर्तिः / कथापूर्तिः । टाप्, डीप्। सन्धि - वृद्धि, यण्, अयादि और पूर्वरूप अपठितगद्यांशाधारित - एकपदेन, पूर्णवाक्येन तथा निर्देशानुसारेण उत्तरत। वचन, लिंग, पुरुष, लकार, विभक्तिः। इव, उच्चैः, एव, नूनम्, विना, इति, मा, यत्, च, श्वः, ह्यः, अद्य, अत्र - तत्र, यथा - तथा, यत्र - कुत्र, इदानीम्, अधुना, सम्प्रति।	छात्रेषु त्यागम् प्रति रुचिसंवर्धनम्। स्त्री - प्रत्ययेन नूतनपदानाम् निर्माणम्। अव्ययानाम् प्रयोगम् कृत्वा व्याकरणांशस्य परिशोधनम्।
जुलाई	पाठ ५ पाठ ६ रचनात्मककार्यम् प्रत्ययः, समासः	अभ्यासवशात् मनः। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । राष्ट्रं संरक्ष्यमेव हि। पदपरिचयः, अन्वयः, शब्दार्थाः, अभ्यासकार्यम् । चित्र लेखनम्, पत्र लेखनम्, संवाद पूर्तिः / कथापूर्तिः । मतुप्, ठक्, त्व, तल्। विभक्तिः, नञ्, उपपद तत्पुरुषः। पाठाधारित - कथापूर्तिः (मंजूषा पद सहायतया रिक्तस्थानपूर्तिः)	समासमाध्यमेन छात्रेषु वाक्यानाम् संक्षिप्तिकरण स्य शिक्षणम् । चित्राधारित वर्णनम् कृत्वा लघुवाक्यानाम् निर्माणम्।
अगस्त	अर्धवार्षिक परीक्षा	पठितपाठ्यक्रमस्य पुनरावृत्तिः तथा अभ्यासकार्यम्। छात्राणाम् समस्यानाम् समाधानम् तथा च छात्राणाम् परीक्षा।	

सितम्बर	पाठ ७ पाठ ८ रचनात्मककार्यम् अशुद्धिसंशोधनम्	साधुवृत्तिं समाचरेत्। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । तिरुक्कुरल्-सूक्ति-सौरभम्। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । चित्र लेखनम्, पत्र लेखनम्, संवाद पूर्तिः / कथापूर्तिः । वचन, लिंग, पुरुष, लकार, विभक्तिः।	पाठमाध्यमेन प्रकृतेः सौन्दर्यस्य विषये ज्ञानसंवर्धनम्। अशुद्धिसंशोधन माध्यमेन शुद्धवाक्यानाम् निर्माणम्।
अक्टूबर	पाठ ९ अव्ययः पूर्व वार्षिक परीक्षा	सुस्वागतं भो! अरुणाचलेऽस्मिन्। पदपरिचयः, शब्दार्थाः, अभ्यासकार्यम् । यदा, तदा, कदा, सहसा, वृथा, शनैः, अपि, कुतः, यावत्, बहिः, कदापि, पुरा, इतस्ततः, यदि – तर्हि, किमर्थम् । पठितपाठ्यक्रमस्य पुनरावृत्तिः तथा अभ्यासकार्यम्। छात्राणाम् समस्यानाम् समाधानम् तथा च छात्राणाम् परीक्षा।	पाठमाध्यमेन चारित्रिक विकासम्। अन्वयः तथा भावार्थ माध्यमेन भाषायाः परिमार्जनम्।
नवम्बर	पाठ १० समासः सन्धिः रचनात्मककार्यम्	कालोऽहम् (केवलम् पठनार्थम्) । अव्ययीभावः (अनु, उप, सह, निर्, प्रति, यथा) द्वन्द्वः। विसर्गस्य उत्त्वम्, रत्वम्, विसर्गलोपः, विसर्गस्य स्थाने स्, श्, ष्। चित्र लेखनम्, पत्र लेखनम्, संवाद पूर्तिः / कथापूर्तिः । पाठाधारित - कथापूर्तिः (मंजूषा पद सहायतया रिक्तस्थानपूर्तिः)	अव्ययीभाव समासेन व्याकरणिक अंशानाम् परिशोधनम्।

दिसम्बर	पाठ ११ पूर्ववार्षिक परीक्षा	किं किम् उपादेयम्(केवलम् पठनार्थम्)। पठितपाठ्यक्रमस्य पुनरावृत्तिः तथा अभ्यासकार्यम्। छात्राणाम् समस्यानाम् समाधानम् तथा च छात्राणाम् परीक्षा।	पाठ माध्यमेन छात्रान् प्रति समयस्य महत्त्वम् प्रतिपादनीयम्।
जनवरी	पूर्व वार्षिक परीक्षा	पठितपाठ्यक्रमस्य पुनरावृत्तिः तथा अभ्यासकार्यम्। छात्राणाम् समस्यानाम् समाधानम् तथा च छात्राणाम् परीक्षा	

Month	Topic	Sub Topic	Learning Outcomes
			Students would be able to
April	Ch-1 Real Numbers Ch-2 Polynomials Ch-3	<ul style="list-style-type: none"> • Introduction • The Fundamental Theorem Of Arithmetic • Revisiting Irrational Numbers • Introduction • Geometrical Meaning of The Zeros And Coefficients of a Polynomial • Relationship Between Zeros And Coefficients of a Polynomial • Introduction 	<p>Recall different number system and to apply concept of HCF and LCM in different situations.</p> <p>Prove Irrational numbers</p> <ul style="list-style-type: none"> • Recall the concept of polynomials. • Compare the relation between zeroes and coefficients of a polynomial • Comprehend the method to form a polynomial.

July	Ch-6 Triangles	<ul style="list-style-type: none"> • Introduction • Similar Figures • Similarity Of Triangles • Criteria For Similarity Of Triangles 	<ul style="list-style-type: none"> • Recall different types of triangle and their properties. • Explore different methods to prove the theorem and its applications. • Apply the concept in different situation. • Correlate the subject with geometry in real life
	Ch-7 Coordinate Geometry	<ul style="list-style-type: none"> • Introduction • Distance Formula • Section Formula 	<ul style="list-style-type: none"> • Select appropriate formula to find out length of a line segment. • Apply section formula in different situation. • Apply the concept to check for collinear points
	Ch-8 Introduction To Trigonometry	<ul style="list-style-type: none"> • Introduction • Trigonometric Ratios • Trigonometric Ratios of Some Specific Angles <ul style="list-style-type: none"> • Trigonometric Identities 	<ul style="list-style-type: none"> • Identify T-ratios by taking ratio of sides with reference to an acute angle of a right triangle. • Prove Trigonometric identities. • Compare, explore and estimate trigonometric ratios & values of specific angles

August	<p>Ch-9</p> <p>Some applications of Trigonometry</p> <p>Ch-10</p> <p>Circle</p>	<ul style="list-style-type: none"> • Introduction • Heights And Distances <ul style="list-style-type: none"> • Introduction • Tangent to a Circle • Number of Tangents from a point on a Circle. 	<ul style="list-style-type: none"> • Apply Trigonometric ratios in solving day to day life situation. • Develop problem solving skills. <p>Develop logical reasoning skill by proving theorems related to Tangent to circle.</p>
Sep		FIRST TERM EXAMINATIONS	
Oct	<p>Ch-11</p> <p>Areas Related to Circles</p> <p>Ch-12</p> <p>Surface Areas And Volumes</p>	<ul style="list-style-type: none"> • Areas Of Sector And Segment Of A Circle <ul style="list-style-type: none"> • Introduction • Surface Area of a Combination of Solids • Volume of a Combination of Solids. 	<ul style="list-style-type: none"> • Recall the concept circle and parts of the circle. • Identify appropriate formula to find Length of an arc, area of sector and segment. <ul style="list-style-type: none"> • Recall different solid shapes and their properties. • Identify appropriate formula and to apply them to find out surface area and volume of combination of solids. • Develop computational skill.
Nov	<p>Ch-13</p> <p>Statistics</p>	<ul style="list-style-type: none"> • Introduction • Mean Of Grouped Data • Mode Of Grouped Data 	<ul style="list-style-type: none"> • Recall the concept Mean, Mode and Median of raw data.

	Ch-14 Probability	<ul style="list-style-type: none"> • Median Of Grouped Data • Introduction • Probability – A Theoretical Approach Revision	<ul style="list-style-type: none"> • Explore different methods to find out Mean, Median and mode. • Recall the concept experimental probability and to correlate with theoretical probability. • Understand the concept by various situations in real life.
Dec		PRE-BOARD EXAMINATIONS	

Subject –Physics /Chemistry

Vishwa Bharati Public School, Noida			
Physics - Chemistry Syllabus , Class-X, 2022-23			
PHYSICS			
MONT H	UNITS	Sub units	Learning Outcomes
			Students will be able to :
April	Ch-10 Light	Reflection Of Light, Image Formation By Spherical Mirrors,	*recall the concepts of Light done in the previous classes.
	Reflection & Refraction.	Uses, Sign Convention, Mirror Formula & Magnification,	*apply sign convention in numericals.
		Refraction Of Light, Refraction Through Glass Slab, Refractive index, Image Formation By Lenses, Sign Convention For Lens	*relate refraction of light to everyday events.
		Lens Formula & Magnification, Power Of A Lens.	*define Power of a lens.
May/Ju ly	Ch- 11 The Human Eye & The Colourful World	Refraction through a glass prism.	*Explain refraction
July/Au g	Ch-11	Rainbow, Dispersion, Atmospheric Refraction, Scattering Of Light.	*observe the effects of refraction in daily life.
	Practical- 4	Use a concave mirror to direct the sun rays on a sheet of paper and adjust the distance to get a sharp spot of light. Find 'f'.	* determine the focal length of a concave mirror and convex lens.

	Practical- 5	Focus the light from the sun on a sheet of paper through a convex lens to obtain a sharp bright image of the sun. Keep observing the paper for a while, write your observation. Find 'f'.	
	Practical-6	Refraction through a rectangular glass slab.	* observe the path of a light ray through a glass slab.
	Practical-7	Refraction through an equilateral prism.	*through a glass prism.
Sept	I TERM EXAM		

Oct	Ch-12 Electricity.	Electric Current & Circuit, Electric Potential & Potential	* draw labelled circuit diagrams * solve numericals on the topic.
		Difference, Ohm's Law, The Factors On Which Resistance Of	*verify Ohm's Law
		A Conductor Depends, Resistance In Series & In Parallel,	
		Heating Effect & Electric Power.	*apply heating effect in daily life.
	Practical-1	To study the dependence of current on potential difference	* illustrate V-I graph.
		across a resistor and plot a graph.	
Oct/Nov	Ch-13 Magnetic Effect Of	Magnetic Field & Field Lines, Right Hand Thumb Rule,	*define magnetic field, field lines.
	Electric Current.	Magnetic Field Due To A current Through- A Straight Wire, A	*apply cork screw rule.
		Circular Loop & A Solenoid, Force On A Current-Carrying	
		Conductor In A Magnetic Field, Electric Motor.	*explain working of a motor
		Electro-Magnetic Induction	*define EMI
		Potential difference, induced current	
November	Practical Exam		
December	PREBOARD-II	Revision	

CHEMISTRY			
APRIL	Ch-1 Chemical Reactions & Equations.	Chemical Equation- Types : combination, Decomposition,	*Identify kinds of reactions.
		Displacement, Double Displacement, Oxidation & Reduction,	
		Effects Of Oxidation- Corrosion & Rancidity.	*relate to the effects of corrosion in daily life.
	Practical- 1	To identify the types of reactions: Combination, decomposition	*observe the different kinds of reactions and their characteristics.

		Displacement and Double-Displacement	
May	Ch-2 Acids,Bases & salts	Chemical Properties, acid-base indicators, Strengths of acids/bases	*differentiate between acids,bases and salts.
		/salts,Importance Of pH, salts,Chemicals from Common-Salt.	*list the different kinds of indicators.
	Practical- 2.	To study the pH of the following samples- HCl, NaOH, water,	*identify acidic,basic and neutral solutions.
		CH ₃ COOH, NaHCO ₃ -Solution & Lemon juice.	
	Practical- 3.	To study the properties of acids and bases- Litmus, Zn-metal	*observe the reactions of acids and bases.
		and solid Na ₂ CO ₃	
	Practical- 4	To observe the action of Zn, Fe, Cu & Al on the following salt	
		solutions- ZnSO ₄ , FeSO ₄ , CuSO ₄ & Al ₂ (SO ₄) ₃ .	
July	Ch-3 Metals & Non-metals.		list and compare the physical properties of Metals and non metals.
August	Ch 3 (Contd)	Properties of Ionic Compounds	*explain the properties
			Of ionic compounds.
Sept	I TERM EXAM	Revision	
Sept/Oct	Ch-4 Carbon & its	Bonding In Carbon, Versatile nature, saturated & Unsaturated	*define covalent bonding
	Compounds.	C-compounds, Chains, Branches & Rings,Homologous Series	*reason for the versatile nature of carbon.
		Chemical properties of carbon compounds	*Name the allotropes of Carbon.
		Combustion, oxidation	*State the characteristics
		.Addition , substitution	Of Homologous series.
		Ethanol and ethanoic acid Soaps and detergents	State properties of ethanoic acid and ethanol
October	PREBOARD-I	Revision	
Novemb er	Practical EXAM		
Dec	PREBOARD-II	Revision	

Subject –Biology

Vishwa Bharati Public School, Noida			
Biology Syllabus , Class-X, 2023-24			
BIOLOGY			
MONTH	UNITS	Sub units	Learning Outcomes

			Students will be able to :
Apr /May	Ch-5 Life Processes	What are Life Processes?	1. Understand the process of nutrition, respiration, transportation and excretion in plants and animals 2. Analyse the steps involved in all processes
		Nutrition: Autotrophic Nutrition, Heterotrophic Nutrition, How do organisms obtain their nutrition, Nutrition in Human Beings	
		Respiration	
		Transportation: Transportation in Human Beings Transportation in Plants	
		Excretion: Excretion in Human Beings Excretion in Plants	
		Activity: 1. To prepare temporary mount of leaf peel to observe stomata 2. To study the action of saliva on starch 3. To observe that carbon dioxide is released during exhalation and it's action on lime water 4. To observe the process of transpiration in plants	
July /Aug	Ch-6: Control and Coordination	Animals - Nervous system What happens in reflex actions? Human Brain Chemical Coordination Animal Hormones	Understand: 1. Nervous system in animals 2. Structure of neurons 3. Neuro-muscular junction 4. Reflex Action 5. Human Brain 6. Coordination in Plants 7. Response to stimulus 8. Hormones in animals and plants
		Coordination in Plants Tropic movements in plants Introduction of plant hormones Immediate response to stimulus Movement due to growth	
		Activity: 1. To study relation between sense of smell and sense of taste 2. To study tropic movement in plants	
Sept	I TERM EXAM		
Oct	Ch-7: How do organisms reproduce?	Do organisms create exact copies of themselves? The importance of variation Accumulation of variation during reproduction	1. Understand the significance of Reproduction Process 2. Differentiate between Asexual and Sexual reproduction

		Modes of reproduction used by single organisms Fission: Binary Fission, Multiple Fission Fragmentation Regeneration Budding Vegetative Propagation Spore Formation	3. Enlist various parts of reproductive organs and their function 4. Understand about the various sexually transmitted diseases and their causative agents 5. Understand the harmful effects of population explosion and the ways to control birth.
		Sexual Reproduction Why the sexual mode of reproduction Sexual reproduction in flowering plants Reproduction in Human Beings: <ul style="list-style-type: none"> • Male Reproductive System • Female Reproductive System • What happens when an egg is not fertilised? • Reproductive Health 	
		Activity: 1. To study binary fission in amoeba 2. Budding in yeast and hydra with the help of prepared slides	
Nov	Ch-8: Heredity	Heredity: Inherited Traits Rules for inheritance of Traits - Mendel's contribution How do these traits get expressed? Sex Determination	1. Understand the terms related to genetics (Gene, Allele, Phenotype, Genotype, Homozygous, Heterozygous etc.) 2. Observe the importance of sexual reproduction in genetic variation 3. Explain the Laws of Inheritance (Dominance, Segregation and Independent Assortment) 4. Solve the questions by using Punnett Square
	Ch-13: Our Environment	Ecosystem Environmental Problems Ozone Depletion Waste Production and their solutions Biodegradable and non-biodegradable substances	1. Differentiate between biodegradable and non-biodegradable substances 2. Enlist various components of ecosystem 3. How our activities effect the environment 4. Ozone depletion 5. Managing the garbage we produce

: Contemporary India -II

: Democratic Politics-II

: Understanding Economic development

Term I Month	Topic	Sub topics	Learning outcomes
April 2023 Term 1	Pol.Sc Ls 1: Power Sharing Geo: Ls.1 Resources & Development	Case Studies of Belgium & Sri Lanka. Why Is Power Sharing desirable? Forms Of Power Sharing Development of resources. Resource planning of India Land resources. Land utilization. Land use pattern in IndiaLand degradation & conservation measures Soil as a resource Classification of soils Soil erosion & soil conservation	Understand the need for power sharing in democracy through the case studies of Belgium & Sri lanka. To comprehend the forms of power sharing. Understand the value of resources & the need for their judicious Utilisation & conservation.
April 2023	History: Ls.1 The Rise of Nationalism in Europe.	The French Revolution & the idea of the nation. The making of Nationalism in Europe.The Age of Revolutions : 1830 - 1848 The Making of Germany & Italy.	The theme will discuss the forms in which nationalism developed along with the formation of nation states in Europe in the post 1830 period.
May 2023	History Ls 1: The rise of nationalism in Europe (contd)	The history of Great Britain Visualizing the nation Nationalism & Imperialism Different people,	To Understand the changing form of nationalism & the rise of imperialism during the early 20th century.

	<p>Economics : Ls.1</p> <p>Development</p>	<p>different goals. Income & other goals. National development. How to compare different countries or states ? Income & other criteria Public facilities & sustainability of development.</p>	<p>To familiarise with some economic concepts. Sensitizing the children about the rationale for overall development in our country. How and why people should be healthy and provided with education.</p>
	<p>Geo Ls 2: Forest & Wildlife</p>	<p>Conservation of forest & wildlife in India. Types & distributions of forest & wildlife resources. Community & conservation.</p>	<p>Understanding the importance of forest & wildlife. To comprehend the ability & knowledge of how forest & wildlife conservation & management relate to the economy & environment, both currently & in the future.</p>

<p>July 2023</p>	<p>Pol Science Ls 2: Federalism</p> <p>Geo Ls 3: Water Resource</p> <p>Eco Ls 2: The sectors of Indian Economy</p> <p>History Ls 2: Nationalism in India</p>	<p>What is federalism? What makes India a federal country? How is federalism practiced in India? Decentralization in India.</p> <p>Water Scarcity & need for water conservation & management. Multipurpose river projects & integrated water resources management. Rainwater harvesting</p> <p>Sectors of Economic Activities. Comparing the three sectors; primary, Secondary & tertiary sectors in India. Divisions of sectors as organized & unorganized sectors in terms of ownership; public & private.</p> <p>The 1st world war, Khilafat & non-cooperation. Different strands within the movement. Towards the Civil Disobedience Movement. The sense of collective belonging.</p>	<p>To comprehend the concept of federalism. To understand how federalism works in India. To discuss the importance of decentralization in India.</p> <p>To understand the importance of water as resources as well as to develop awareness towards its judicious use & conservation.</p> <p>To make aware of major employment generating sectors. To comprehend the importance & need of the public sector.</p> <p>To understand the features of Indian Nationalism through the case studies of non-cooperation & civil disobedience movement. Analyze the nature of diverse social movements of the time. Discuss the importance of pan-Indian belongingness.</p> <p>Explain the importance of agriculture in the national economy. Identify the various types of farming & discuss the various farming methods.</p>
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August 2023	<p>Geo Ls 4: Agriculture</p> <p>Pol Sc Ls 4: Gender, religion & caste.</p> <p>History Ls 3: Making of a global world</p> <p>(Subtopics 1 to 1.3) Rest part for interdisciplinary project as part of multiple assessments.</p>	<p>Types of farming. Cropping pattern. Major crops. Technological & institutional reforms.</p> <p>Gender & politics. Women's political representation. Religion, communism & politics. Caste & politics. Politics in caste.</p> <p>Pre modern world to conquest, disease & trade.</p>	<p>Explain various government policies for institutional & technological reforms since independence.</p> <p>Identify & analyze the challenges posed by communalism to Indian democracy</p> <p>Show that globalization has a long history & point to the shifts within the process.</p>
September 2023	<p>Eco Ls 3: Money & credit</p> <p>Geo Ls 5: Minerals & Energy Resources</p> <p>History Ls 4: The age</p>	<p>Money as a medium of exchange. modern forms of money. Loan activities of the banks. Two different credit situations. Terms of credit. Formal sector credit in India. Self help groups for the poor.</p> <p>What is a mineral? Mode of occurrence of minerals. Ferrous & non-ferrous minerals, non metallic & rock minerals. Conservation of mineral energy resources. Conventional & non-conventional conservation of energy resources.</p> <p>Before the industrial</p>	<p>Understanding money as an economic concept. Understanding the role of financial institutions from a daily point of view.</p> <p>Identify the different types of minerals & energy resources. Create awareness for judicious utilization.</p> <p>Familiarise with the</p>

<p>Term II</p> <p>October 2023</p>	<p>of industrialisation (To be evaluated in periodic test)</p> <p>Revision for Term 1</p>	<p>revolution. Hand labour & steam powered. Industrialisation in the colonies. Factories come up. The peculiarities of industrial growth. Market for goods.</p>	<p>proto-industrial phase & early factory system. Comprehend the process of industrialisation & its impact on the labour class. To understand industrialisation in the colonies w.r.t textile industries.</p>
	<p>Pol sc Ls 6: Political Parties</p>	<p>Why do we need political parties? How many parties should we have? National & state political parties. Challenges to political parties. How can parties be reformed?</p>	<p>Understanding the need for political parties. To differentiate between state & national parties. To analyse the challenges faced by political parties & to discuss various laws passed to reform political parties.</p>
	<p>Geo Ls 6: Manufacturing Industries</p>	<p>Importance of manufacturing industries. Industrial location. Contribution of manufacturing industries to the national economy. Classification of industries. Spatial distribution. Industrial pollution & industrial degradation. Control of environmental degradation.</p>	<p>To recognize the importance of industries in the national economy as well as to understand the regional disparities which resulted due to concentration of industries in some areas. To sensitize the need for industrial development & to discuss the steps taken by the govt for sustainable development.</p>
	<p>Eco Ls : 4</p> <p>Globalization</p> <p>Geo Ls 7: Lifelines of</p>	<p>What is globalisation? Factors that enabled globalisation. Rest parts are for interdisciplinary project as part of multiple assessments.</p>	<p>To comprehend the term globalisation. To explain the workings of global economic phenomena.</p>

November 2023	the national economy	Interdisciplinary project as part of multiple assessments	To understand the importance of transport & communication in the modern era.
	History Ls 5: Print culture & the modern world.	First printed books. Print comes to Europe. Print revolution & its impact. The reading mania. The 19th century India & the world of print. Religious reforms & public debates. New forms of publication. Print & censorship.	Identify the link between the print culture & the circulation of ideas. To familiarise with pictures, cartoons. Understand that forms of writing have a specific history & that they reflect historical changes within society & shape the forces of change.
	Pol sci Ls 7: Outcomes of democracy	How do we assess democracy's outcomes? Accountable, responsive & legitimate govt. Economic growth and development. Reduction of inequality & poverty. Accommodation of social diversity.	To analyse why democracy is better than other forms of govt. To discuss its accountability, legitimacy & responsiveness towards the citizens. To understand the reasons for the continuation of democracy in India.

		Dignity & freedom of the citizens.	
December/ January 2022-23	REVISION FOR PRE-BOARDS & Boards		
<p><u>“NOTE:</u></p> <p><u>HISTORY & GEOGRAPHY MAPS:</u></p> <p><u>AS PRESCRIBED BY CBSE</u></p> <p><u>ART INTEGRATED PROJECT AS PER CBSE GUIDELINES”</u></p>	<p><u>Topics for project</u></p> <ol style="list-style-type: none"> <u>1. Sustainable development</u> <u>2. Consumer Rights</u> <u>3. Social Issues (On any one topic project to be done).</u> 		