

NCERT Books : First Flight
Footprints Without Feet

Month	Topic	CONCEPT/SKILLS	INCULCATION	INTEGRATED ACTIVITIES	Learning Outcomes	Sources / Resources FLIPPED LEARNING	SUBJECT ENRICHMENT	INTERNAL ASSESSMENT
Apr.	A Letter to God	Problem Solving	Real life experiences		Faith in God and trust in humanity	https://youtu.be/DBzLk...	Turn on the subtitles	
	Poem - Dust of Snow	Optimism	Discussion		Simple act of kindness may bring huge changes in life.	First Flight PPT	Play Word Association	
	Poem - Fire and Ice	Analytical	Discussion		Enhancement of critical thinking	First Flight PPT https://youtu.be/dZ3Bp2wAaPY	Make word web	
	How to Tell Wild Animals	Subtle Humour	Comic Strip		Learning to conserve and co-exist with wild animals	First Flight https://youtu.be/g2sv5Ae4IA8	Pictorial effect to the text	
May	Poem : A Tiger in the Zoo	Empathy	Word Web	ppt on poetic devices	Realization of significance of freedom	First Flight https://youtu.be/lID6dCQZ_Ho	A short article about tiger	CLASS TEST
	A Triumph of Surgery				Excess of everything is bad	NCERT Book	OREO	
	Problem Solving	Video			Footprints Without Feet. https://youtu.be/A3ztWmZT3Q	Opinion, Reason, Example, Opinion		
	The Thief's Story	Decision Making	Edu.com		Human virtues like honesty and hardwork are essential in life	NCERT Book Footprints Without Feet. https://youtu.be/LrIQM-ESUGs	Examples of Narrative Endings	
	Two stories about flying	Adaptability	Video		Necessity is the mother of invention	First Flight https://youtu.be/Q9QU8fERq2Y https://youtu.be/b1w9X89x-Dc	Let's Talk Nonfiction	
	The Midnight Visitor	Patience	PPT		Enabling the students to make character analysis	Footprints Without Feet. https://youtu.be/V6ocRhs0yQ	Develop a story with the same title	
July	Poem - The Ball Poem	Epistemology of loss	Online Sources		Copying with the loss	First Flight https://youtu.be/PVr2HVINSfg	Cause and Effect Rockets (Graphic Presentation)	
	A Question of Trust	Professional Ethics	Edu.com		Reviewing and applying the steps for building a trustful relationship	Footprints Without Feet. https://youtu.be/hTCiCa132Mg	Sketch a trustworthy Friend	
	Formal Letters	Writing Skills	Samples		understanding of effective presentation of topic	bbc	Worksheets	
	Analytical Paragraph	Writing Skills	Examples of ideal content		Procuring reflective expressions	bbc	Worksheets	
	From the Diary of Anne Frank	Interpersonal Communication			To sustain a positive outlook	First Flight https://youtu.be/jqYyb4-p3g	POST READING ACTIVITY 1. Flow Chart of the Story 2. Framing Quiz Questions 3.Character	
	Poem - Amanda	Interpersonal Communication	video		Essentiality of healthy human bonds.	First Flight https://youtu.be/RB3QUeoGIHA	Character Traits Feelings Actions Thoughts	
	Sentence Transformation	Grammar Skills			Attaining Grammar competence	bbc	Unedited paragraphs	
Aug.	Footprints without Feet	Interpersonal Communication			Ability to discriminate the good from the evil	Footprints Without Feet. https://youtu.be/z5OCXPUVxM	Retell Setting,characters, problem,happenings,sol ution	
	The Making of a Scientist	Intellectualism	Mind Map		Encouragement for beginning with small	Footprints Without Feet. https://youtu.be/YDQVI	Sequencing Cards First Next Then Last	
	Poem-Trees	Renaissance and Regeneration	Edu.com		Learning to safeguard nature and its entity	First Flight https://youtu.be/vPbkQ2ioy8g	Discuss uses of trees	
	Glimpses of India Part-1 A Baker from Goa	Analytical skills	Collage	Project on historical places of	Appraising and admiring different professions.	First Flight https://youtu.be/vNPMr1OX-Bs		
	Part-2 Coorg	Analytical skills			Acquaintance with the life style of bakers.			
	REVISION AND EXAMINATION				Familiarity with distant places within country.		Bring out specialities of places described in the chapter and discuss. https://youtu.be/VGFDdxygs-c https://youtu.be/V0HqV52MkqY	
	Part-3 Tea from Assam	Analytical skills			Accumulating information about origin of tea plants.			
	Poem-Fog	Elusive nature of Fog			Understanding the natural phenomenon	First Flight https://youtu.be/1Mte7n89Yfg	Share your experience of a foggy day	
Sept.					Identifying the use of situational irony.			Mid term Examinations
Oct.	The Necklace	Adaptability	Discussion	Pictorial Presentation	Deriving meanings of unfamiliar terms and applying the same in different contexts.	Footprints Without Feet. https://youtu.be/AuxiRChOCi0	Characterize the protagonist	

					Development of critical and analytical skills	Footprints Without Feet	In emotional and social context.	
					Evaluating the characteristics of the otters	First Flight	Write and discuss characteristics of your favourite animal	
	Mijbil the Otter	Effect of being considerate			Maturing ability to respond to a situation	First Flight	Syntax framing employing different phrases, words and	
Nov.	The Tale of Custard the Dragon	Appearances are deceptive	Word Web	Comic Strip	Knack to triumph over complexes	Footprints Without Feet	Create an insightful short story using the same title.	
	Bholi	Critical skills	Think, pair and share		Enabling the learners to extrapolate present with future.	First Flight	Exchange views about gist of the story.	
	The Sermon at Benares	Analytical Skills	Concept map		Realization of Philosophy of life.	First Flight	Write a diary entry describing character traits of your neighbour.	
Dec.	The Proposal	Interpersonal Communication	Discussion		Introspection of strengths and weaknesses	Footprints Without Feet	Portray the Protagonist Of the story	
	Poem-For Anne Gregory	Familiarity with Superficiality	Video		Advancing and maturing imagination skills	Footprints Without Feet	Visualize a fictional story and share	
	The Book That Saved The Earth	Imagination	PPT		Reinforcement of critical thinking ability	Bbc	Worksheets	
	Comprehension passages	Reading Skills	Assignments					
Jan.								Pre Board Examination

विषय हिंदी

पुस्तकें: क्लितिज भाग 2
कृतिका भाग 2
नवयुग हिंदी व्याकरण तथा रचना सत्र

मास	पाठ्यक्रम	सीखने के प्रतिफल	स्रोत / संसाधन	सुझावत्मक क्रियाकलाप (गतिविधियाँ)
अप्रैल	नेताजी का चरमा	देशभक्ति की भावना का विकास होगा। आर्थिक संसाधनों की कमी को लक्ष्य प्राप्त में बाधा नहीं बनने देना।	N.C.E.R.T, E-pathshala पर उपलब्ध सामग्री देख सकते हैं। आई सी टी का उपयोग करते हुए क्यू आर कोड की सहायता ले सकते हैं।	सुभाष चंद्र बोस के बारे में जानकारी एकत्रित करना। स्वतंत्रता सेनानियों के प्रति हमारे उत्तरदायित्व।
	सूरदास	कविता से भक्ति भावना का विकास होगा। कृष्ण के जीवन से जुड़ी कहानियों से अभिनय कला का विकास होगा।	नेताजी का चरमा https://youtu.be/G9HZO-5NIKU https://youtu.be/G9HZO-5NIKU प्रश्नोत्तर के लिए पीडीएफ	अपने परिवेश में घटित होने वाली घटनाओं के प्रति सजग रहकर देश में आई कोरोना वायरस जैसी महामारी में अपनी देशभक्ति प्रकट करना।
	माता का अंचल	पाठ से ग्रामीण परिवेश की जानकारी जटाना। बच्चे के लिए मां के महत्व को जानना।	माता का अंचल https://m.youtube.com/watch?v=L9wTunM44T प्रश्नोत्तर के लिए पीडीएफ	गोपियों के वाकचातुर्य की विशेषताएँ बताते हुए वाक चातुर्य से संबंधित कला का वर्णन करना। वाक चातुर्य में निपुण तेनालीराम और बीरबल की कहानियाँ पढ़ें।
	वाक्य भेद	वाक्य रचना का ज्ञान प्राप्त होना। वाक्य प्रयोग में अंतर स्पष्ट होना। पाठ्य पुस्तक में प्रयुक्त वाक्यों का रूपांतरण सीखना।	वाक्य भेद https://youtu.be/VQ09sQTBNrA	अपने बचपन की यादों को डायरी वदध करें। पाठ में आई घटनाओं को चुनकर नाटक में प्रस्तुत करें। अपने बचपन से जुड़ी कविता लिखें।
	पद परिचय	पद परिचय में प्रयुक्त व्याकरण के विषयों की संपूर्ण जानकारी प्राप्त करे। पाठ्य पुस्तक में प्रयुक्त वाक्यों के अंतर्गत पद परिचय बताना।	पद परिचय https://youtu.be/CE5ONcfG6g8	वाक्यों में भिन्न-भिन्न प्रकार के शब्दों का ज्ञान देते हुए विभिन्न शब्दों का पद परिचय सिखाया जाएगा।
	विज्ञापन	सूचना व प्रसारण आकर्षक लेखन शैली	जनसंचार माध्यम अखबार, टी.वी.पर विज्ञापन देखें। ई - पाठशाला पर सहायक सामग्री देखें।	विज्ञापन प्रस्तुतिकरण
	राष्ट्रीय प्रेम से संबंधित अनूच्छेद	विचार अभिव्यक्ति की क्षमता का विकास सामाजिक और राष्ट्रीय प्रेम में वृद्धि। लेखन क्षमता का विकास।	विभिन्न पुस्तकें	उदाहरण और काव्य पंक्ति का उल्लेख करना अनूच्छेद की रूपरेखा तैयार करना।

मई	बालगोबिन भगत	भगत के व्यक्तित्व की जानकारी एकत्रित करना । दुनियादारी से अलग रहकर भी सम्मानित जीवन जीने की कला जानना ।	बालगोबिन भगत का चित्र दिखाना । पाठ से संबंधित E- pathshala पर सामग्री देख सकते हैं । बालगोबिन भगत https://youtu.be/3He215y5F5 प्रश्नोत्तर के लिए पीडीएफ	अपनी दिनचर्या को डायरी वद्ध करें । विधवा विवाह विषय पर वाद-विवाद करें ।
	तुलसीदास	साहस के साथ-साथ विनम्रता का भाव होना।	रामचरितमानस पढ़ें। https://youtu.be/zv5sYrk7Xk	राम लक्ष्मण परशुराम संवाद का नाटक में प्रस्तुतिकरण करना
	वाच्य परिवर्तन	वाच्य का अर्थ व भेदों का ज्ञान । पाठ्य पुस्तक में से वाक्य रूपांतरण सीखना ।	वाच्य परिवर्तन	वाच्य पहचान कर वाच्य के भेद बताना । संवादों में वाच्य परिवर्तन सीखें ।
	अलंकार	अलंकारों की उदाहरण सहित जानकारी मिलेगी अलंकारों के भेदों का ज्ञान होगा	व्याकरण पुस्तक टी.वी., समाचार पत्र, नेट पुस्तकें शब्दालंकार अर्थालंकार	पाठ्य पुस्तक की कविताओं में से अलंकार छंट कर उसका भेद बताएं।
	औपचारिक पत्र	पत्र लेखन कला का विकास । अभिव्यक्ति कौशल का विकास ।	व्याकरण की विभिन्न पुस्तकें	संबोधन व अभिवादन पत्र में सीखें । सम-सामायिक विषयों से संबंधित पत्र लिखें ।
	स्ववृत्त लेखन	बौद्धिक क्षमता में वृद्धि स्ववृत्त लेखन कला की जानकारी		औपचारिक विषयों पर स्ववृत्त
जुलाई	लखनवी अंदाज	दिखावटी शान में जीवन जीने वालों को जानना । आधुनिक कहानीकारों के कहानी लेखन का ज्ञान देना	आई सी टी उपयोग करते हुए क्यू आर कोड की सहायता लें । लखनवी अंदाज प्रश्नोत्तर के लिए पीडीएफ	किसी खाद्य वस्तु का रसास्वादन करने के लिए प्रस्तुतिकरण करें लखनऊ के नवाबों की आदतों, खानपान, रहन-सहन और उनके शौक की जानकारी प्राप्त होना ।
	संदेश लेखन	आकर्षण लेखन शैली	अखबारों के माध्यम से संदेश लेखन की कला सीखना ।	संदेश लेखन प्रस्तुतिकरण ।
	अनौपचारिक पत्र	पत्र लेखन कला अभिव्यक्ति कौशल का विकास बौद्धिक क्षमता में वृद्धि।	विभिन्न पुस्तकें	संबोधन व अभिवादन सीखें। सम-सामायिक विषयों से संबंधित पत्र लिखें ।
अगस्त	आत्मकथ्य	अपने गुण दोष पहचानना कठिन होता है इसलिए आत्म विश्लेषण की प्रवृत्ति को अपनाकर स्वयं के बारे में विकास करना।	प्रसिद्ध व्यक्तियों की जीवनी पढ़ना। https://youtu.be/LGJ5KSI2AZg	बिना ईमानदारी और साहस के आत्मकथा नहीं लिखी जा सकती है। गांधीजी की आत्मकथा 'सत्य के प्रयोग' पढ़कर पता लगाइए कि उन की क्या-क्या विशेषताएँ हैं?
	एक कहानी यह भी	आजादी के आंदोलन में भूमिका निभाने वाले स्वतंत्रता सेनानियों का योगदान ।	https://youtu.be/nTXV5t9I7Os	स्वतंत्रता आंदोलन में प्रसिद्ध महिलाओं द्वारा निभाई गई उनकी भूमिका से परिचित होना और स्वतंत्रता की लड़ाई में हिस्सा लेने वाली महिलाओं की सूची बनाना।
	उत्साह, अट नहीं रही है	अपने पर्यावरण में आए सकारात्मक बदलावों की जानकारी प्राप्त होना। बादलों में छिपी क्रान्तिकारी को जानना। फागून महीने में प्रकृति में बदलावों को जानना।	बादलों के विभिन्न दृश्य देखने के लिए इंटरनेट का उपयोग कर सकते हैं। आई सी टी का उपयोग करते हुए क्यू आर कोड की सहायता ले सकते हैं । उत्साह, अट नहीं रही है https://youtu.be/WSXTGESbJ-M प्रश्नोत्तर के लिए पीडीएफ	होलों के समय प्रकृति चित्रण में बदलाव पर कविता लिखने के लिए देंगे। बादलों से घिरे आसमान और वनस्पतियों पर पड़ने वाले प्रभाव को लिखें ।
	ई -मेल	ई -मेल लेखन कला का विकास		विभिन्न विषयों पर ई-मेल लेखन
सितंबर	अर्द्धवार्षिक परीक्षा पुनरावृत्ति			
अक्टूबर	साना-साना हाथ जोड़ें	प्राकृतिक सौंदर्य का मानव जीवन पर प्रभाव। सीमा पर लड़ने वाले जवानों की समस्याओं से परिचित होना ।	प्राकृतिक सौंदर्य का चित्र साना-साना हाथ जोड़ें https://youtu.be/vWDM3G91S64 प्रश्नोत्तर के लिए पीडीएफ	अपनी किसी पर्वतीय यात्रा का वर्णन करना । पहाड़ी क्षेत्र में रहने वाले मेहनती लोगों के बारे में जानकारी इकट्ठी करना ।
	*** दंतुरित मुस्कान ,	बच्चे की मुस्कान का मानव मन पर प्रभाव । एक पिता के हृदय की भावनाओं को समझना।	पाठ्य पुस्तक https://youtu.be/ovUvc9rhRuM	बच्चे के हाव -भावों को कविता या अनुच्छेद के रूप में लिखें ।

	फसल	फसल की उत्पत्ति में सहायक तत्वों की जानकारी	https://youtu.be/w2Qifak5FRs	एक सुदृढ़ कृषि व्यवस्था के लिए अपने सुझाव देते हुए अखबार के संपादक को पत्र लिखें। जल जीवन का है आधार, बिन इसके जीवन बेकार। इस विषय पर अपने विचार प्रकट करें।
नवंबर	संस्कृति में क्यों लिखता हूँ *** संगतकार	ज्ञान में वृद्धि संस्कृति और सभ्यता के विकास का अंतर समझना। लेखन कला का विकास संगतकार के त्याग को समझना।	https://youtu.be/aVt9IKiqo7Y https://youtu.be/J2nhC-zCOq0 https://youtu.be/JRnC9SQIwE4	संस्कृति और सभ्यता पर अनुच्छेद लेखन कविता और कहानी लेखन पर चर्चा दैनिक जीवन में संगतकार को किन-किन क्षेत्रों में देखा जा सकता है उनके विषय में चर्चा करना। मुख्य कलाकार की कामयाबी में निभाई जाने वाली संगतकार की भूमिका को बताना। आप फिल्में तो देखते ही होंगे। अपनी पसंद की किसी एक फिल्म के आधार पर लिखिए कि उस फिल्म की सफलता में अभिनय करने वाले कलाकारों के अतिरिक्त और किन-किन लोगों का योगदान रहा।
	खेल, विज्ञान, पर्यावरण पर अनुच्छेद	ज्ञान में वृद्धि	विभिन्न पुस्तकें	उदाहरण और काव्य पंक्ति का उल्लेख करना अनुच्छेद की रूपरेखा तैयार करना।
दिसंबर	नौबत खाने में इबादत विचारात्मक अनुच्छेद बोर्ड परीक्षा की तैयारी होगी। पुनरावृत्ति	सुप्रसिद्ध शहनाई वादक भारत रत्न बिस्मिल्लाह खान के जीवन के विविध पक्षों को जानना। एक कलाकार की कला के प्रति निष्ठा एवं समर्पण को जानना। ज्ञान में वृद्धि पाठ्यक्रम का लिखित व मौखिक अभ्यास होगा।	https://youtu.be/NAPCCSvNvnM विभिन्न पुस्तकें पाठ्यक्रम पूर्व परीक्षाओं के प्रश्न पत्र और सैंपल पेपर	बिस्मिल्लाह खान के द्वारा गंगा जमुनी संस्कृति पर किए गए कार्यों का उल्लेख करना। सांप्रदायिक सदभावना को विकसित करने के लिए अपने सुझावों को कक्षा में सांझा करना। हमारे साहित्य, कला, संगीत को समृद्ध करने में कारी के योगदान पर चर्चा कीजिए। उदाहरण और काव्य पंक्ति का उल्लेख पाठ्यक्रम का लिखित और मौखिक अभ्यास करना। पाठ्यक्रम से संबंधित अतिरिक्त प्रश्न तैयार करना।
जनवरी, फरवरी	पूर्व कालीन बोर्ड परीक्षा	पूर्व कालीन बोर्ड परीक्षा को लेकर वार्षिक बोर्ड परीक्षा का लिखित व मौखिक अभ्यास होगा	पाठ्यक्रम पूरे परीक्षाओं के प्रश्न पत्र और सैंपल पेपर	पाठ्यक्रम से संबंधित सभी प्रश्नों को पूर्ण रूप से तैयार करना।

Class :-X		Subject :MATHEMATICS		Session :- 2022-23		
MONTH	TOPIC	LEARNING OUTCOMES	SOURCE/RESOURCES	ECT ENRICHMENT ACTI	MULTIPLE ASSESSMENT AND ART INTEGRATED ACTIVITIES	APPLICATIONS
MARCH	CH1:REAL NUMBER Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through through examples, Proofs of v2, v3, v5 Irrationality.	applies logical reasoning in classifying real numbers,proving their properties and using them in different situations.	National Digital library of India(NDLI) LINK: http://ndi.iitkgp.ac.in Diksha App CBSE web site www.cbseacademic.nic.in	To find HCF of two numbers experimentally	Group Activity: Students will design two real life situations based on HCF and LCM.	Practical use of HCF and LCM in doing certain arrangements in real life situations.

	<p>CH2: POLYNOMIALS Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.</p>	<p>Find the zeros of a polynomial by means of graph, where it intersects the x-axis Relate the zeroes of the quadratic polynomial $ax^2 + bx + c$ with the coefficients a, b, c</p>			Crossword puzzle.	Use of parabolic paths in construction of flyovers and bridges
APRIL	<p>CH3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</p> <p>Pair of linear equations in two variables and graphical method to find their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.</p>	<p>Students will learn to apply their critical thinking to express real life situations in linear in two variable and to plot the graph. Students will also learn to solve a system of linear equation by the method of substitution and elimination.</p>	<p>Digital library of India(NDLI) LINK: http://ndi.litkgp.ac.in Diksha App CBSE web site www.cbseacademic.nic.in</p>	To find the condition for consistency of linear pair of equations	Case Study Based Questions (Real life situations)	to relate real life situations with algebraic expressions and equations
	<p>CH4: QUADRATIC EQUATIONS Standard form of a quadratic equation $ax^2 + bx + c = 0$, ($a \neq 0$). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots.</p>	<p>demonstrates strategies of finding roots of quadratic equation by using different methods like factorization and quadratic formula</p>			PPT based on history and use of Quadratic equations.	to generate a quadratic equation for situational problems
MAY	<p>CH5: ARITHMETIC PROGRESSIONS Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A.P.</p>	<p>develops strategies to apply the concept of AP to daily life situations</p>		To verify that the sum of n natural numbers is given by	Charts depicting Rangoli designs and spirals based on AP	use of different pattern of numbers in real life situations
	<p>CH6: TRIANGLES Periods Definitions, examples, counter examples of similar triangles. 1. (Prove) If a line is drawn to one side of a triangle the other two sides in distinct the other two sides are same ratio. 2. (Motivate) If sides of a triangle in ratio, the line is parallel to third side. 3. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. (Motivate) If one angle of a</p>	<p>Students will learn the principle of similarity .Use of BPT and Pythagoras theorem in different situations. They will be able to know that how principle of similarity can be applied in surroundings.</p>	<p>Digital library of India(NDLI)\ LINK: http://ndi.litkgp.ac.in Diksha App And CBSE web site www.cbseacademic.nic.in</p>	To verify experimentally Basic Proportionality Theorem	Explanation of similarity of triangles using different cut-outs made of coloured sheets.	useful in engineering, construction and interior decoration.

	triangle is equal to one of another triangle and sides including are proportional, triangles are					
JUNE						
JULY	CH7:COORDINATE GEOMETRY LINES (In two-dimensions) Periods Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).	Locate points in 2-dimensional Cartesian coordinate system Apply the formula and calculate distance between two points on a plane Students will learn how a particular location can be identify .It will help us to learn town planning and seating arrangements are part of it.			Art based Graph activity using display board	Coordinate geometry is used in various fields such as physics,engineering, navigation, seismology and art.
	CH8:TRIGONOMETRY: INTRODUCTION TO TRIGONOMETRY Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined). Values of the trigonometric ratios of 30° , 45° and 60° . Relationships between the ratios.	Develop understanding of trigonometric ratios of an acute angle of a right angled triangle		<i>To verify distance formula by graphical method.</i>		
	CH8:TRIGONOMETRIC IDENTITIES Periods Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.	Tabulate and make use of trigonometric ratios of standard angles of, 30° , 45° , 60° to right angled triangle	Digital library of India(NDLI) LINK: http://ndli.iiitkgp.ac.in Diksha App And CBSE web site www.cbseacademic.nic.in	video based on application part will be shown using educomp	Model making activity	
AUGUST	CH9:HEIGHTS AND DISTANCES: Angle of elevation, Angle of Depression Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30° , 45° , 60° .	Students will be able to learn the use of trigonometric ratios to find the heights and distance of distant objects.				it is used in geography, navigation. To find heights and distance of various objects without actually measuring them. to understand the concept of practical problems on plane figures
	CH10:CIRCLES Tangent to a circle at, point of contact 1. (Prove) The tangent point of a perpendicular to the radius through the point of 2.(Prove) The lengths of tangents drawn from an external point to a circle are equal.	Students will learn the concept of circle and different properties related to circle .		To verify length of tangents drawn from an external point to a circle are equal.	Properties using geo board	
SEP	REVISION &MID TERM EXAM.					

OCT	CH12:AREAS RELATED TO CIRCLES area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60° and 90° and 120° only.	Students will learn the concept of area of combination of plane figures .They will learn how this concept is useful in designing parks and flower beds.	Digital library of India(NDLI) LINK: http://ndi.iitkgp.ac.in Diksha App And CBSE web site www.cbseacademic.nic.in	Finding areas of different parts of basketball court.	useful in designing layout of construction plan
	CH13: SURFACE AREAS AND VOLUMES Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.	Students will learn the concept to find area and volume of different combination of solids	Digital library of India(NDLI) LINK: http://ndi.iitkgp.ac.in Diksha App And CBSE web site www.cbseacademic.nic.in	To obtain formula for the surface area and volume of the frustum of cone. Group Activity-CLAY MODELLING: Designing Models based on combination of solids depicting different situations	useful in real life to design objects of different shapes.
NOVEMBER	CH 14: STATISTICS : Mean, median and mode of grouped data (bimodal situation and step deviation method for finding the mean to be avoided).	Calculate the average from grouped data using different methods i.e. direct, assumed mean and step deviation method	Digital library of India(NDLI) LINK: http://ndi.iitkgp.ac.in Diksha App CBSE web site www.cbseacademic.nic.in	<i>Survey based project</i>	useful in various fields like physical and medical sciences and various analytical analysis
	CH15: PROBABILITY Classical definition of probability. Simple problems on finding the probability of an event.	Student will learn how to judge and justify the value of decision	<i>Use of cards, coins and dice as teaching aids.</i>	<i>To verify probability of an event through experiment</i> QUIZ BASED ON PROBABILITY	to do the predictions of some random experiments
DEC.	REVISION AND PRE BOARD EXAM.				

Social Science

Month	Topic	Learning outcome	Source/Resource	Suggestive activities
March	Geography Resources & development	<ul style="list-style-type: none"> Understand the value of resources & the need for the judicious utilization & conservation, classification of resources, analyses the impact of conservation of natural resources on the life of people, identifies land use categories, causes of land degradation & its consequences and appreciates methods of soil conservation. 	Textbook Contemporary India - II, online E-learning portal School Bhawan NCERT, QR code given in the chapter may be used to consult the resource. https://mhrd.gov.in for Resources And Development www.india.gov.in Department of Land Resources	<ul style="list-style-type: none"> The teacher may take cue from their write up and discuss about different types of resources by giving examples from the surroundings. Flowchart may be used to discuss about types of Resources and their examples. Students may prepare a short note on the need of resource planning in India.

	Forest and Wild Life	<ul style="list-style-type: none"> Understand the importance of forests and wild life in one environment as well as develop concept towards depletion of resources, analyses indigenous and modern methods of conservation of forests and wildlife,, appreciates the role of community in conservation of forests and wildlife. 	<p>For spatial distribution of forests in India, refer to – "State Forest Report of India", Government of India. www.fsi.nic.in Web Resource Online E-learning portal School Bhuvan NCERT for interactive thematic maps https://h5p.org</p> <p>/node/489615</p>	<ul style="list-style-type: none"> The teacher may initiate the discussion with the help of Newspaper clippings related to forest fire and wildlife in India and the world. Students may talk with their parents or grandparents about the harmonious relationship between human beings and nature during their childhood days. They may also ask their parents and grand parents about the changes they observe in their surroundings. Students may prepare a write up on this and share with teacher and classmates through email or Whatsapp. Students may prepare a list or Flow chart of flora and fauna which are Endangered/ Vulnerable/Extinct, etc.
April	Water Resources	Comprehend the importance of water as a resource as well as develop awareness towards its judicious use & conservation.	<p>Methods of rain water harvesting https://theconstructor.org/methods/For-rain-water-harvesting-methods-&-techniques</p> <p>https://www.conserve-energy-future.co..</p>	<ul style="list-style-type: none"> Teacher can share various techniques of rainwater harvesting system with students during ancient times as well as in the modern era Students can share their videos how they can conserve water at homes in daily life and harvest rainwater for use at home.
			<p>www.chaitanyaproducts.com steps taken by the central govt. to promote rainwater harvesting in india.</p>	
	Agriculture	<ul style="list-style-type: none"> Identify the various types of farming & discuss various farming methods, describe the spatial distribution of major crops as well as understand the relationship between rainfall regimes & cropping pattern, Explain various government policies for institutional as well as technological reforms since independence. 	<p>https://revisionworld.com/type s-farming,</p> <p>https://krishijagran.com/agripedia/important-government-schemes-programmes-in-agriculture</p>	<ul style="list-style-type: none"> Students can ask their parents & grandparents about different types of crops grown in different seasons, from the newspaper they can collect the information about various government schemes for peasants. Students can make chart for differentiating various methods of farming.
	Minerals & Energy Resources	Identify the different types of minerals and energy resources & places of their availability. Feel the need for their judicious utilization.	<p>India - Resources and power Britannica</p> <p>www.britannica.com › place › Resources-and-power</p>	On the Political map of India mineral & energy resources will be marked. Group discussion in the class on the topic“ways to save energy resources”
May	Manufacturing Industry	<ul style="list-style-type: none"> Bring out the importance of industries in the national economy as well as understand the regional disparities which resulted due to concentration of industries in some areas, Discuss the need for a planned industry & development and debate over the role of government towards sustainable development. 	<p>Role of Major Industries in Indian Economic Development</p> <p>Ministry of Heavy Industries - Industries National Portal of India</p> <p>www.india.gov.in › topics › industries</p> <p>Indian Cotton Industry: Cotton Exporters, Manufacturers in India ...</p> <p>www.ibef.org › Exports</p>	<ul style="list-style-type: none"> Charts can be made by the students showing the classification of industries and a flow chart on value addition in textile industry, On political map of India major textile industries, iron & steel plants and Software Technological Parks can be located and labelled. Project work given in NCERT book at the end of the chapter will be discussed with students.

			Iron & Steel Industry in India: Production, Market Size, Growth ... www.ibef.org > Industry	
	Lifelines of National Economy	<ul style="list-style-type: none"> Explain the importance of transport & communication in the ever-shrinking world, Understand the role of trade & tourism in the economic development of a country. 	Transport Department - Transport National Portal of India www.india.gov.in > topics > transport Importance of tourism https://www.sciencedirect.com/science/article/pii/S2314721017300063	Student can make a table showing different means of transportation. On political map of India major seaports and international airports located & labelled.
May	Economics Development	<ul style="list-style-type: none"> Familiarize with the concepts of macroeconomics. Understand the rationale for overall human development in our country, which includes the rise of income, improvements in health and education rather than income. Understand the importance of quality of life and sustainable development. 	Understanding Economic Development NCERT Book	<ul style="list-style-type: none"> To make a chart using key terms, helpful for understanding the chapter Calculate the BMI of 10 people of different age group of different occupation.
June	Project 1. Every student has to compulsorily undertake any one project on the following topics: Consumer Awareness OR Social Issues OR Sustainable Development	2. Objective: The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.	The distribution of marks over different aspects relating to Project Work is as follows: Content accuracy, originality and analysis-2 Presentation and creativity-2 Viva Voce-1	It is to be noted here by all the teachers and students that the projects and models prepared should be made from eco-friendly products without incurring too much expenditure. The Project Report can be handwritten.
July	Sectors of the Indian Economy	<ul style="list-style-type: none"> Identify major employment generating sectors. Reason out the investment in different sectors of economy 	https://www.drishtias.com https://msme.gov.in	<ul style="list-style-type: none"> Students can prepare one chart related to different economic activities in different sectors. Teacher will explain the different sectors based on nature of activities, working conditions and ownership by taking examples from daily life. One activity to calculate the GDP conducted by the Teacher. (Given in NCERT Book)
	Money and Credit	<ul style="list-style-type: none"> Understand money as an economic concept. 	https://indian.money.com https://www.lopol.org	<ul style="list-style-type: none"> Pictures of Bank Draft and Cheque will be shown to differentiate
		<ul style="list-style-type: none"> Understand the role of financial institutions from the point of view of day to day life. 	https://www.iasexpress.net	<ul style="list-style-type: none"> Parents can be advised to give practical knowledge
	Globalization and the Indian Economy	Explain the working of the Global Economic Phenomenon	https://youtu.be/1JOnFD19eT8 https://economictimes.indiatimes.com	<ul style="list-style-type: none"> Students can take some branded products that they use everyday and check which of these are produced by MNCs Students can collect information and photographs from newspapers, magazines, books, television, internet of any Indian industry on the following aspects various producers /companies in the industry: product is exported to other countries, are there MNCs among the producers, condition of work in the industry Negative impact of Globalisation : Spread of COVID 19

August	Political Science Power Sharing	<ul style="list-style-type: none"> Familiarize with centrality of power sharing in a democracy. Understand the working of spatial and social power sharing mechanism. 	Power Sharing in India https://en.m.wikipedia.org PPT on Power Sharing will be shared during class (www.slideshare.net)	<ul style="list-style-type: none"> Students may be asked to prepare a short note on the Power sharing and share it with their peers. Through e-mail WhatsApp. Discuss with your parents on the functioning of Democracy Design a mock parliament and make a note of the issues to be discussed during the different sessions of the Parliament. Share with your friends on mobile phone, email, WhatsApp. Prepare a Flow Chart on different Organs of the Government.
	Federalism	<ul style="list-style-type: none"> Analyze federal provisions and institutions. Explain decentralization in rural and urban areas. 	Federalism in India https://en.m.wikipedia.org www.thehindu.com Decentralization https://en.m.wikipedia.org	<ul style="list-style-type: none"> Locate places on the world map on countries having federal political system. Prepare write-up on unique features of Federalism and Unitary System of Government. Discuss with parents on what makes India a federal Country. <ul style="list-style-type: none"> You may prepare a Chart giving items mentioned in
				the Union, State and in the Concurrent Lists.
				.
	Gender, Religion, and caste	Identify and analyze the challenges posed by communalism to Indian democracy. Develop a gender prospective on politics.	Ncert.nic.in https://m.youtube.com	Students can make a chart on sexual division of labour, various fields in which women are discriminated.
	Political Parties	Analyze the party system in democracies Introduction to major political parties, challenges faced by them and reforms in the country.	Party System https://en.m.wikipedia.org Politics of India https://en.m.wikipedia.org	<ul style="list-style-type: none"> Students can prepare a chart to give detail information of National Political parties under the headings: year of foundation, founder members, party symbol, ideology, party supremo, main leaders. Collect the photographs and news related with various functions of political parties.
September	Outcomes of Democracy	<ul style="list-style-type: none"> Evaluate the functioning of democracies in comparison to alternative forms of government. Understand the causes for continuation of democracy in India. Distinguish between sources of strengths and weaknesses of Indian democracy. 	Accountability https://en.m.wikipedia.org Democratic Accountability www.shareweb.ch	<ul style="list-style-type: none"> Discussion on economic outcomes of the democracy.
	History Nationalism in India	<ul style="list-style-type: none"> Recognize the characteristics of Indian nationalism through a case study of Non-Cooperation and Civil 	India and the Contemporary World Political Map of India	<ul style="list-style-type: none"> The teacher may ask students to prepare a chart using these measures taken by Indian revolutionaries to create a sense of
	Disobedience		https://neostencil.com Satyagraha against the Rowlatt Act- First mass strike, https://www.britannica.com Jallianwala Bagh Massacre- Causes, History & Significance, https://knowindia.gov.in Culture & Heritage-Freedom struggle-The Non-Cooperation Movement, https://youtu.be/wj8GF1rkJK8 , web.delhi.gov.in > Nationalism in India Delhi Government portal, https://en.m.wikipedia.org	identity. The chart may also contain visuals/images.

		<p>Movement, Analyse the nature of the diverse social movements of the time,</p> <ul style="list-style-type: none"> Familiarize with the writings and ideals of different political groups and individual, Appreciate the ideas promoting Pan Indian belongingness. 	Indian Nationalism	<ul style="list-style-type: none"> The student may be asked to make a comparative chart on the development of Non-Cooperation Movement and Civil Disobedience Movement, Students may be divided into two groups, one group may work on Non-Cooperation and other on Civil Disobedience. Gather information and analyse the role of Mahatma Gandhi and other important leaders in Indian National Movement. On Political map of India important congress sessions and places related to National Movement will be shown.
October	The Rise of Nationalism in Europe	<ul style="list-style-type: none"> explains the concept of nationalism and the inherent features of a nation recognizes the role of French revolution in spreading ideas of liberty and equality in Europe. analyse how the idea of nationalism and its various forms emerged in Europe. describes the role of revolutionaries in the creation of nation states. recognizes the role of language in developing nationalist sentiments explains how female allegories came to represent the nation. observes map of Europe after 1815 and draws comparisons after creation of nation states. 	<p>Giuseppe Mazzini e-Resources India and the Contemporary World II http://ncert.nic.in/textbook/textbook.htm?less3=2-5 https://www.britannica.com/biography/Giuseppe-Mazzini/Triumvir-of-republican-Rome</p>	<ul style="list-style-type: none"> The students may be advised to interpret a primary source: 'What is a Nation' by Ernst Renan. (p. 4) The students may identify the inherent features of a nation in the source. The teacher may ask students to prepare a chart listing those measures taken by French revolutionaries to create a sense of collective identity. The chart may also contain visuals/Images. The teacher may prepare a set of ten quiz items on the role of the French revolution in spreading the idea of the nation in Europe. Students may be encouraged to participate in the quiz. The teacher may encourage students to draw comparison between a nation – state and monarchy along with examples. The teacher may prepare a glossary of terms from
				<p>the textbook such as Plebiscite, Conservatism, Suffrage, Nationalism, Nation-State, Allegory, etc., and share with students.</p> <ul style="list-style-type: none"> The students may be asked to: ♦ make a comparative chart on the development of Germany and Italy as nation states. Students may be divided into two groups- one group may work on Germany and the other on Italy. After completion a discussion may be initiated. ♦ gather information and analyse the role of the Italian revolutionaries Giuseppe Mazzini and Giuseppe Garibaldi and their vision
		<ul style="list-style-type: none"> Familiarization with the Proto- Industrial phase and Early-factory system, Familiarize with the process of industrialization and its impact on labour class, 		<ul style="list-style-type: none"> Students may be asked to prepare a chart explaining fig.1 & fig.2 given in the chapter. Students may be asked to give two examples where modern development that is associated with progress has led to problems. They may like to think of the areas related to environmental issues, nuclear weapons or disease.

	The Age of Industrialization	<ul style="list-style-type: none"> Enable them to understand industrialization in the colonies with reference to Textile industries. 	e-Resources India and the Contemporary World II http://ncert.nic.in/textbook/textbook.htm?less3=2-5	<ul style="list-style-type: none"> The teacher may prepare a glossary of terms from the textbook such as Stapler, Fuller, Carding, Proto, Orient, Sepoy, Fly shuttle, Spinning Jenny and share with students. Students may write their views on Fig.3, 7 & 11 given in the Textbook why many workers were opposed to the use of Spinning Jenny. Students may write down about an industry and how they advertise their products in the market.
	Print Culture and the Modern World	<ul style="list-style-type: none"> Identify the link between the print culture and the circulation of ideas. Familiarize with the pictures, cartoons, extract from propaganda literature and newspaper debates on important events and issues in the past. Understand that forms of writing have a specific history, and that they reflect historical changes within society and shape, the forces of change 	https://diksha.gov.in/play/colle ction	<ul style="list-style-type: none"> Students can compare the print revolution and its impact in Europe with those in India.

SUBJECT-PHYSICS

MONTH	TOPIC	LEARNING OUTCOMES	SOURCE/RESOURCES	SUGGESTED ACTIVITIES
APRIL	CHAPTER 10 LIGHT	THE LEARNER WILL BE ABLE TO	NCERT/STATE TEXT BOOK	
	1-REFLECTION OF LIGHT	<ul style="list-style-type: none"> Identify light as a form of energy that affects sight 	https://youtu.be/m-21BhdGu0	<ul style="list-style-type: none"> *How do we observe the image formed by (i) concave (ii) convex reflecting surfaces Watch the below link activity and make a list of reflecting surfaces
		<ul style="list-style-type: none"> Distinguish between ray and beam Conceptualize the term Reflection of light and laws of reflection 	https://youtu.be/R-rPGtLxIQ	https://www.youtube.com/watch?v=I_XukVFHX6A
		<ul style="list-style-type: none"> Analyse image formation in plane mirror and name the characteristics of this image Distinguish between real & virtual image 	https://youtu.be/v0sXOq9k6P0	
		<ul style="list-style-type: none"> Comprehend the term spherical mirrors, identify their types and define the terms—pole, aperture, focus principal axis, centre of curvature, radius of curvature focal length. 	https://youtu.be/k4Nr4_i-wh0	
		<ul style="list-style-type: none"> Discover rules for obtaining image formed by spherical mirrors. Draw ray diagrams to show formation of image by concave and convex mirror 	https://youtu.be/3-VP9j6RqKA	https://www.youtube.com/watch?v=L_MpY13ypmo
		<ul style="list-style-type: none"> Study the formation of image by a concave mirror and a convex mirror for different positions of objects 	https://youtu.be/W3JE00hAZqA	<ul style="list-style-type: none"> *What happens when sun rays are focussed by a concave mirror on a piece of paper go through above activity link and create your own video
		<ul style="list-style-type: none"> Experimentally find focal length of a concave mirror by focussing the image of a distant object. 	https://youtu.be/P9tPk5jCchQ	
		<ul style="list-style-type: none"> Investigate the uses of plane mirrors, concave mirrors and convex mirrors in our day-to-day life, with the help of activity 	https://youtu.be/AqXjURie6mY	<ul style="list-style-type: none"> *How can the image of an object formed in a plane mirror be studied
		<ul style="list-style-type: none"> Analyse that as they see an ambulance coming on the road, should immediately give the way so that the patient inside can reach hospital at earliest 	https://youtu.be/DuaXfkW3wGU https://youtu.be/_86PsrjbrU	
MAY	2-Refraction of Light and Lenses and application of spherical mirrors and lenses	<ul style="list-style-type: none"> Classify optical medium as a rarer or a denser medium. Comprehend definition of refraction of light and represent diagrammatically 	https://youtu.be/_AQI17fXPKo	

		<ul style="list-style-type: none"> • Evolve laws of refraction of light, verify them experimentally • Interpret the meaning of the term refractive index and its relation to the velocity of light 	https://youtu.be/EWJthSa_6u4	
		<ul style="list-style-type: none"> • Analyse the reason behind everyday phenomena using knowledge of refraction of light • Develop definition of a lens • Identify types of lens • Discover rules for image formation in lenses 	https://youtu.be/Nn_PxgYFRlA	
		<ul style="list-style-type: none"> • Sketch ray diagrams to locate image in convex and concave lenses • Study the image formed by lenses 	https://youtu.be/KKvRLDa-dv8	
		<ul style="list-style-type: none"> • Experimentally find the focal length of convex lens by focussing the image of a distant object 	https://youtu.be/RMfuREaITWM	
		<ul style="list-style-type: none"> • Comprehend the lens formula and magnification formula • Solve numerical problems 	https://youtu.be/QOM-J22AM7L	
		<ul style="list-style-type: none"> • Develop meaning of power of lens, state and define its unit. 	https://youtu.be/Csv4Wl2a1IQ	
JUNE	SUMMER BREAK			
JULY	CHAPTER-11 Human Eye and Colourful World			
	1-Functioning of lens in human eye, defects of vision and their corrections			
	2- Refraction of light through a glass prism	<ul style="list-style-type: none"> • Draw the shape of the prism and define angle of prism. • Trace the path of a ray of light through a glass prism • Develop meaning of angle of deviation 	https://youtu.be/IsaUCH6f5pU	*Observe the bending of pencil and raising of coin , lemon in pure water and write your observation regarding phenomenon of refraction
	3-Dispersion of light	<ul style="list-style-type: none"> • Comprehend the term dispersion of light • Develop the meaning of spectrum & name its colours • Deduce the cause of dispersion 	https://youtu.be/G4YX6xNNXDC	*Try to disperse the white light coming from sun by the soap bubble and click the pictures.
	3- Atmospheric Refract	<ul style="list-style-type: none"> • Illustrate that white light is composed of seven colours • Logically analyse the reason for the formation of rainbow. 	https://youtu.be/rMQlI-Gmz2w	
		<ul style="list-style-type: none"> • Discover that atmosphere consists of layers of air having different densities. 	https://youtu.be/klAxm1UEOGc	*Observe the colour of sun in the morning, noon and evening for 5 days and write the observations. Now discuss with your friends and teacher the reason behind the different observations
	3- Scattering of light	<ul style="list-style-type: none"> • Justify how stars appear to twinkle but planets do not twinkle. • Deduce the reason for apparent position of star due to refraction • Understand the reason for advanced sunrise and sunset • Understand the reason for advanced sunrise and sunset • Develop concept of scattering of light and Tyndall Effect • Infer that the colour of Scattered light depends on the size of particles • Reason out the blue colour of the sky & red colour of sun at sunrise • Observe the scattering of blue light by colloidal solution 	https://youtu.be/F0WBGw3fims	*After watching link create your own video on Tyndall effect at home
SEPTEMBER	MID-TERM EXAM			
OCTOBER	CHAPTER 12- ELECTRICITY	<ul style="list-style-type: none"> • Identify charge as a fundamental quantity. • Develop meaning of electric current and its unit, electric potential, potential difference and their units. • Evolve Ohm's law and express it mathematically. • Verify Ohm's law experimentally. • Develop meaning of resistance using Ohm's law • List the factors which affect resistance. • Explain resistivity, Conductors, resistors & insulators • Experimentally determine the factors affecting resistance 	https://youtu.be/0AaCcj_4mw https://youtu.be/pH401I2GQI https://youtu.be/6xyp1Ohu7BE https://youtu.be/jEmMTUyUKSA https://youtu.be/7w7MieTPik	<ul style="list-style-type: none"> *With the help of battery, bulb switch, wire construct electric circuit *Make a list of conductor , insulator and write their properties

		<ul style="list-style-type: none"> Calculate effective resistance in series and in parallel combination Experimentally verify the laws of resistances in series and in parallel Analyse the uses of conductors, resistors and insulators. Observe that heat is produced due to flow of current State Joule's law and express it mathematically Recognise application of commercial unit of energy in our daily life Infer that appliances of higher power consume more energy. So to save energy, use of high power appliances should be minimized Discover applications of heating effect of electric current like fuse, heaters. 	https://youtu.be/JlwGgQrk684 https://youtu.be/oCQeF7WRNgs https://youtu.be/zqapY8PSB6M https://youtu.be/sWd5dd8RG_A https://youtu.be/7YrjrHAWqCM	*Calculate the electricity bill of your house for the month of August by Calculating power, energy consumption by appliances
NOVEMBER	<p>CHAPTER 13- Magnetic Effect of Electric Current 1. Magnets 2. Magnetic effect of electric current</p> <p>3. Electromagnetic induction</p>	<ul style="list-style-type: none"> Recall magnets and list their important properties Conceptualize magnetic field lines and list their properties Experimentally trace magnetic lines of force Interpret construction of Solenoid & electro-magnet and their uses *Comprehend and apply right hand thumb rule to find out direction of magnetic field Experimentally study the force acting on a current carrying conductor Comprehend and apply Fleming's Left hand rule for finding direction of force on a current carrying conductor Observe experimentally electromagnetic induction. Comprehend induced current, state Fleming's Right hand rule and apply it to find direction of induced current 	https://youtu.be/3lusVaE4Gx0 https://youtu.be/ETJWrsJN9I https://youtu.be/Dm686nrNnfc https://youtu.be/mpOg-aGwHIM https://youtu.be/8hFWtFBFpM https://youtu.be/lahQXNvZxt8 https://youtu.be/GkD8RMEi6s https://youtu.be/IGFO7MKVxmg https://youtu.be/17ePwh-bg_4 https://youtu.be/YddV_FkCKYM	<p>*After watching link 2 and 3 Draw magnetic field lines around a bar magnet? With the help of compass</p> <p>*Does a current carrying conductor produce magnetic field? JUSTIFY</p>
	<p>CHAPTER 13 Magnetic effect of electric current Domestic electric circuit</p>	<p>*Able to know about electric generator and differentiate between AC and DC current</p>	<p>Differentiate between the appliances available in your home in which AC and DC current flow and also write their characteristics</p>	

Class :- X Subject : Science (Chemistry) Session :- 2022-2023

MONTH	TOPIC	LEARNING OUTCOMES	SOURCE/RESOURCES	SUGGESTED ACTIVITIES
APRIL	CHAPTER-1 CHEMICAL REACTIONS AND EQUATIONS	The learners would be able to		
	Occurrence of chemical reaction	Demonstrate and verify chemical changes	https://www.youtube.com/watch?v=ajT9bLmsxWU	Identify any 5 chemical and physical changes in your daily life processes
	Chemical equation	Relate chemical changes to daily life situations	https://www.youtube.com/watch?v=ajT9bLmsxWU	After watching link 2 write any ten word equations and convert them into formulae.
	Balancing of chemical equation	Convert chemical change into word equation	https://www.youtube.com/watch?v=ajT9bLmsxWU	Balance the chemical equations given in the assignment.
		Substitute it by symbols and formula		
		Correlate law of conservation of mass to balancing of chemical equations		
	Types of chemical reactions			
	-Combination	Compare the different types of reactions	https://www.youtube.com/watch?v=HmNsQKLrgh8	To find at least 5 examples of each types of chemical reaction.
	-Decomposition	Demonstrate types of chemical reactions		
	-Displacement			
	-Double displacement			
	-Redox reaction	Compare the reactions as oxidation and reduction	https://www.youtube.com/watch?v=tYKr5ozhVY	Find out few examples of oxidation and reduction from your daily life

	Oxidation in everyday life	Apply oxidation in daily life	https://www.youtube.com/watch?v=gWPIVF3WFzU	Suggest some methods of preventing corrosion of metals.
	-Corrosion			
	-Rancidity			
MAY	CHAPTER-2			
	ACIDS, BASES AND SALTS			
	Classification of matter – Acids, Bases and Salts	Demonstrate the properties of acids and bases	https://www.youtube.com/watch?v=Jfa2wxpJBA&list=PLCGDuK3YIhBfIK_ERwlpWH9JutqCM_Auh&index=44	Enlist any 5 acids and bases present in your home.
	Indicators and its types	Identify the substances as acids or bases		Perform activity given on page no.35 of NCERT
	Chemical properties of acids and bases	List the properties of acids and bases after performing the activities.	https://www.youtube.com/watch?v=DR98pXvPrj	Complete the assignment of chemical reactions based on the chemical properties of metals and non-metals
	pH scale- definition and applications	Correlate the pH to acidic, basic and neutral substances.		
		Test the pH of solutions and classify them by noting the color of the pH paper.	https://www.youtube.com/watch?v=r3hirzWILM	Complete table 2.2 of NCERT by performing activity with pH paper
		Discuss the importance of pH in everyday life		
	Salts- its types and pH	Associate formation of salts to various reactions	https://www.youtube.com/watch?v=T_qWflluOP0	Prepare a table containing ten salts with their respective acids and bases from which they are formed
	Some important salts of Sodium and calcium- preparation, properties and uses.	*Identify the parent acid and base from which the salt is formed	https://www.youtube.com/watch?v=BGHpZx49Ik	
		Justify the various uses of salts in daily life and industry		After watching link prepare an assignment
	Water of crystallization	understand the meaning and role of water of crystallization in determining the color of the salt	https://www.youtube.com/watch?v=9tm28GdT	*Find out any 5 salts which have water of crystallization
JUNE	SUMMER BREAK			
	CHAPTER-3			
JULY	METALS AND NON METALS			
	Classification of elements	Demonstrate the properties of metals and non-metals	https://www.youtube.com/watch?v=Aibe5THaNUU	Study the physical properties of metals using small pieces of metals like iron, copper, aluminium, gold and silver
	Physical properties of metals and non-metals and its applications	Compare the properties of both metals and non-metals Identify the metals and non-metals from the given samples		
	Chemical properties of metals and non-metals	Associate the reactivity of metals on the basis of chemical reactions	https://www.youtube.com/watch?v=YxnN5vLW9F4	After watching the link enlist 5 chemical differences between metals and non-metals
			https://www.youtube.com/watch?v=Sffu3LaRZFM	
	Reactivity series	Tabulate the reactivity series of metals		Solve the assignment based on reactivity series
		Arrange the metals into ascending and descending order of reactivity	https://www.youtube.com/watch?v=19kSxlQWXXk0	
	Electron dot structure and ionic bonding	Illustrate electronic configuration of elements		
		Correlate valency and type of bond formed	https://www.youtube.com/watch?v=9tm28GdT	
AUGUST	Properties of ionic compounds	Draw schematic diagrams and study the properties of ionic compounds	https://www.youtube.com/watch?v=rHKuqqJ5U_w	Find out few compounds having ionic bond, also show the electron transfer in them
	Basic metallurgical process	understand the methodology of extraction of metals		Prepare presentation on the extraction of any five metals.
	Corrosion and its prevention.	Correlate the phenomenon of corrosion in daily life and methods to prevent it		Collect pictures where corrosion occurs in your surrounding.
	CHAPTER -4			
	CARBON AND ITS COMPOUNDS			
	Importance of the carbon element	Discover the application of carbon in everyday life	https://www.youtube.com/watch?v=PwD29Gbtw68	Compile the various substances that are used in daily life which contains carbon
	Versatile nature of carbon	Illustrate carbon with 4 valence electrons forming only covalent bonds	https://www.youtube.com/watch?v=gipyujuKMf4	On the basis of tetravalency of carbon enlist any 5 compounds of carbon
	-tetravalency		https://byjus.com/chemistry/introduction-to-carbon-compounds/	

	-catenation			
SEPTEMBER	Covalent bonding in carbon compounds Homologous series	Correlate the number of bonds formed to the number of pairs of electrons shared	https://www.youtube.com/watch?v=ygQrhTck9JO	Draw the electron dot of the compounds given in the assignment
		Classify the homologous series and its characters		
		Apply the general formula and identify the homologous series	https://www.youtube.com/watch?v=ivy6NBCC6to	Create a chart of homologous series of alkane, alkenes and alkynes on A4 size sheet
			https://www.youtube.com/watch?v=Q7I2R6YWWwo	
	REVISION			
	MID TERM EXAM			
OCTOBER	CHAPTER-4			
	CARBON AND ITS COMPOUNDS(CO			
	CHAPTER - 4 Carbon and its Compounds: Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes),	Illustrate the IUPAC nomenclature of organic compounds	https://www.youtube.com/watch?v=9lpPEOA1gIM	On the basis of chemical properties of alcohols and carboxylic acids investigate any 5 uses each of them in daily life
	difference between saturated hydrocarbons and unsaturated hydrocarbons.	The learners would be able to classify hydrocarbons on the basis of unsaturation.	https://www.youtube.com/watch?v=qox3ntVY_5M	Tabulate all the functional groups and nomenclature rules.
	Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses),	Compare the different types of organic reactions shown by hydrocarbons.	https://www.youtube.com/watch?v=4pYDst3uZe8	Explore any five applications of chemical reaction of hydrocarbons in industries.
			https://www.youtube.com/watch?v=RqNVLCoB_U	
	soaps and detergents	understand preparation, working of soap, differentiate between soaps and detergents	https://www.youtube.com/watch?v=vppFkXW7Dt8	Search the method used by industries for preparation of soap Find out the salts that makes the water hard
NOVEMBER	REVISION and TEST			

BIOLOGY

MONTH	TOPIC\Content	SOURCES\RESOURCES	LEARNING OUTCOME	SUGGESTIVE ACTIVITIES
APRIL	LIFE PROCESSES	NCERT book of science for class x		
	WEEK 1 (NUTRITION)	LINK 1 : https://youtu.be/VV7-s745Zuc	After reading the text and watching videos the learner	
	1) Autotrophic nutrition (photosynthesis)	LINK 2 : https://youtu.be/KpG7h1Xd3GU	1) will be able to differentiate the organisms on the bases of their feeding habits	
	2) heterotrophic nutrition		2) will understand the process of formation of food by plants	1) To observe the process of photosynthesis in a variegated leaf.
	nutrition in human beings	LINK 3 : https://youtu.be/qgXfpqDow	3) develop the knowledge of functioning of different enzymes in human body.	2) to investigate the impact of open and closed stomata on plants life.
			4) can sequentially arrange all the steps of digestion of food in humans.	
	WEEK 2 (RESPIRATION)		After reading the text and watching the videos , the learner will	
	Aerobic respiration	https://youtu.be/2uoCGTAWi0	1) understand the significance of various steps in the breakdown of glucose	1) identify and list at least ten activities that require energy , also identify the sources of energy in each case.
	anaerobic respiration	https://youtu.be/UK9HI93YcQ4	2) become more aware about covid_19 pandemic	2) To make a short project on causes , effects and methods of protection of covid 19.
	respiration in humans	LINK: https://youtu.be/jmQXiLAdtRM_	3) can interpret the antagonistic nature of photosynthesis and respiration in plants.	
	respiration in plants	LINK: https://youtu.be/ZZXo6iBUij https://youtu.be/vk8ZTJ_lqYM		
	WEEK 3 (TRANSPORTATION)	https://youtu.be/UYFXFCWF86g	After reading the text and watching the videos the learner	
	structure and function of human heart		1) can identify the different components of transport system of humans	1) to identify the position of heart in human body.
	double circulation	https://youtu.be/SQua9qKoMfs	2) can draw the diagram of human heart and label its different parts,	2) to identify the opening and closing of heart valves through lub - dub sound.

	lymphatic system	https://youtu.be/SQua9qKoMfs	3) able to make the flow chart of direction of movement of blood in human body	
	transport in plants	https://youtu.be/SQua9qKoMfs	4) discover the mechanism of transport of water and food materials in plants.	3) to observe the effect of less water on the plants.
	WEEK 4 (EXCRETION)		After reading the text and watching videos , the learner	
	structure and function of urinary system in humans	https://youtu.be/SQua9qKoMfs	1) will understand the process of filtration of various waste products in human body	
	formation of urine		2) discover the importance of kidneys in removal of waste products and urine formation.	5) to interpret the relation between intake of water and micturition,
	excretion in plants		3) evaluate the co ordination and interdependence of different life processes for the survival of humans	6) to make an assignment on the process of dialysis.
MAY	CONTROL AND COORDINATION			
	WEEK 1 (Response and stimulus , neuron)	https://youtu.be/SQua9qKoMfs	After reading the text and watching videos, the learner will	1) to interpret the feed back mechanism and its importance
	structure of neuron	https://youtu.be/_2q4suUzByc	1) understand the meaning of stimulus and its corresponding response.	2) to discover the interdependency of different sensory receptors
	transmission of impulse	https://youtu.be/_2q4suUzByc	2) able to interpret different sensory receptors and their interdependency. Identify the different types of nerves and their functions. 3) construct the mechanism of transmission of different impulses from one part of the body to another.	3) to observe the touch response in Mimosa pudica.
	WEEK 2 (reflex action, human brain)	https://youtu.be/_2q4suUzByc	After reading the text and watching videos, the learner will	
		https://youtu.be/_2q4suUzByc	1) understand how a stimulus can create a reflex action in the body.	1) to identify and differentiate conditioned and non conditioned reflexes.
			2) investigate and construct different types of reflex actions and reflex arc in response to different stimuli	2) to observe the changes in the body at the time of reflex action
			3) able to analyse the diagram of human brain and relate its different parts with their functions.	
	WEEK 3 (endocrine system in humans)	https://youtu.be/DFbSsW7-RPs	1) able to locate the positions of different endocrine glands in our body	
		https://youtu.be/_2q4suUzByc	2) correlate the functions of different hormones in growth ,metabolism and development of the body	
	WEEK 4 (tropic movements in plants , phytohormones)	https://youtu.be/_2q4suUzByc , https://youtu.be/cBa3UZrfttk	1) understand the effect of concentration of different plant hormones on the growth , shoot and root development, on flowering and maturity of the plants.	3) to observe the nastic movements in sunflower and touch-me-not.
JULY	HOW DO ORGANISMS REPRODUCE	ce ?		
	WEEK 1 (importance of reproduction, asexual reproduction)	https://youtu.be/JID5SY_QmR4 https://youtu.be/B7yZTR5EnYw	1) correlate the importance of reproduction for an individual or for a species. 2) understand the different methods of asexual reproduction like fission, fragmentation, regeneration, budding and spore formation etc 3) able to draw diagrams of different types of asexual reproduction.	
	WEEK 2 (sexual reproduction in flowering plants)	https://youtu.be/zdKqb06_nj8		1) to observe vegetative propagation in bryophyllum, rose, money plant etc.
		https://youtu.be/cV09glldeW8 https://youtu.be/cV09glldeW8	1) understand the concept of sexual reproduction and its difference from asexual reproduction. 2) Correlate the changes in the appearance of flower from bud stage to fruit formation.	2) to observe the different parts of bisexual flower , identification of its different parts and relate their importance in plant reproduction
	WEEK 3 (sexual reproduction in humans , reproductive health)	LINK 1: https://youtu.be/tMf5GNzEEjo https://youtu.be/r3j9opDFNy0 https://youtu.be/jPArGkgziIM	understand the various steps and stages of reproduction in order in humans. 2) identify the need for different contraceptive methods 3) analyse the need for balance sex ratio for a healthy society.	

AUGUST	HEREDITY AND EVOLUTION	https://youtu.be/PRy9JCuYll		
	WEEK 1(Inherited traits , Mendel's law of inheritance)	https://youtu.be/URy1xzErUK8	identify the common traits in humans and classify them as inherited or acquired traits 2) construct monohybrid and dihybrid cross to calculate the ratios of offsprings through Punnet square.	1 Identify ten acquired and ten inherited traits in humans'
		https://youtu.be/URy1xzErUK8		2) Identify and list five pairs of homologous and analogous traits in plants and in animals.
	WEEK 2 (How do traits expressed, sex determination)	https://youtu.be/6ncwtfw2ag https://youtu.be/22pmp7ovxM	1)construct a crossto show the possibility og male or female child to be born io human beings. 2) will gain the awarness of the fact that scientifically , male or father is responsible of the sex of the baby and not the mother	3) to study the evolutionary history of elephant and horse through evolutionary evidences.
	WEEK 3 (evolution, natural selection , acquired and inherited traits)	https://youtu.be/7RBGXzPAgl	1) understand the evolution by natural selection with the help of given examples.	
	WEEK 4 (speciation, evidences of evolution, artificial selection , evolutionary heierarchy) ****	https://youtu.be/v23wCCUO9fA https://youtu.be/vineMHHCfCQ	1) the learner will assess the natural selection and artificial selectionby giving examples.	
SEPTEMBER			REVISION	
			MID TERM	
OCTOBER	OUR ENVIORNMENT	https://youtu.be/wuGwIus8mSw		
	WEEK 1	https://youtu.be/gPZJMCKROZE	understand the definition of ecosystem and its components. 2) corelate the importance of biotic and abiotic components in all ecosystems	1) to construct food chains having three , four and five trophic levels 2) to construct food web formed by interlinking of different food chains.
	biosphere, its components, biodegradeable and non biodegradeable			
	WEEK 2	https://youtu.be/Wsh2O2Xe1G0 https://youtu.be/7U4nZ8nH_UY	3) understand the nutritional relationships among different organisms. 4) identify the unique characteristics of food chain and different factors that effect a food chain. 5) become aware about the importance and protection of ozone layer.	3) to calculate the amount of energy transferred among various trophic levels in a food chain. 4) make a project to create and circulate awarness among the society for protection of forests and ozone layer.
****	MANAGEMENT OF NATURAL RESOURCES			
	WEEK 3. 1)Importance of management of our resources	https://youtu.be/qcn64Bn68YM	1) Understand the need for management of natural resources.	1) identify , observe and pick five activities of your daily life that are wasting the natural resources.
	2) FORESTS AND WILD LIFE	https://youtu.be/wCB1xvq8MKs	2) critically analyse the importance of forests and all the stake holders attach to it.	2) find and analyse the changes in life style and habits to conserve the natural resources
		https://youtu.be/fCNVdvyR-H8	3) interpret the uses of coal and petroleum in present day scenerio.	
	3) Water	https://youtu.be/u2DIDIX5NOE		
	4) coal and petroleum	https://youtu.be/7xGthOny5Jo		
	5) management of resources	https://youtu.be/h1hOK_-luYk		

***** ONLY FOR INTERNAL ASSESSMENT

LIST OF PRACTICALS

- 1) To make a temporary slide of leaf peel to show the structure of stomata
- 2) To show the release of CO2 during respiration

ਜਮਾਤ ਦਸਵੀਂ, ਵਿਸ਼ਾ ਪੰਜਾਬੀ 2022-2023

ਮਹੀਨਾ	ਮਾਠਕ੍ਰਮ	ਕਿਰਿਆਤਮਕ ਗਤੀਵਿਧੀ	ਗਿਆਨ ਪ੍ਰਾਪਤੀ	ਸਹਾਇਕ ਸਮੱਗਰੀ
ਅਪ੍ਰੈਲ	ਕਵਿਤਾ- ਸੋ ਕਿਉਂ ਮੰਦਾ ਆਖੀਐ ਕਹਾਣੀ- ਕੁਲਫ਼ੀ ਵਿਆਕਰਨ- ਸਮਾਸੀ -ਸ਼ਬਦ, ਬਹੁ ਅਰਥਕ 1-60 , ਮੁਹਾਵਰੇ-ਕ ਅਣਡਿੱਠੇ ਪੈਰੇ ,ਅਣਡਿੱਠੀਆਂ ਕਾਵਿ- ਟੁਕੜੀਆਂ	ਅੰਗਤ ਮਾਂ ਦੇ ਰੂਪ ਵਿਚ ਕੀ-ਕੀ ਕਰਤੱਵ ਨਿਭਾਉਂਦੀ ਹੈ ਇਕ ਸੂਚੀ ਤਿਆਰ ਕਰੋ ਕੁਲਫ਼ੀ ਕਹਾਣੀ ਨਾਲ ਢੁਕਵੀਂ ਕੋਈ ਹੋਰ ਘਟਨਾ ਲਿਖੋ।	ਕਿਸੇ ਤੋਂ ਕੁਝ ਵੀ ਮੰਗਣਾ ਬਹੁਤ ਜ਼ਿਆਦਾ ਔਖਾ ਹੁੰਦਾ ਹੈ। ਅੰਨਿਆਂ ਦੇ ਵਿਰੁੱਧ ਆਵਾਜ਼ ਉਠਾਉਣੀ ਚਾਹੀਦੀ ਹੈ। ਅੰਗਤ ਦੀ ਇੱਜ਼ਤ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ।	ਨਾਰੀ ਸ਼ਕਤੀ ਨਾਲ ਸਬੰਧਤ ਵੀਡੀਓ ਦਿਖਾਉਣੀ। https://youtu.be/A3KHGAGXxtE

ਮਈ	ਵਾਰਤਕ -ਘਰ ਦਾ ਪਿਆਰ ਇਕਾਂਗੀ- ਜ਼ਫ਼ਰਨਾਮਾ ਕਿਰਿਆ- ਵਿਸ਼ੇਸ਼ਣ ਨਿਜੀ ਪੱਤਰ-1-10 ਲੇਖ-1-10 ਵਿਚਾਰ ਪ੍ਰਧਾਨ ਮੁਹਾਵਰੇ -ਖ	ਇਕ ਚੰਗੇ ਮਾਹੁਲ ਵਾਲੇ ਅਤੇ ਇੱਕ ਮਾੜੇ ਘਰ ਦੇ ਮਾਹੁਲ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਇੱਕ ਨਾਟਕ ਤਿਆਰ ਕਰੋ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੇ ਜੀਵਨ ਨਾਲ ਸਬੰਧਤ ਕੋਈ ਹੋਰ ਘਟਨਾ ਲਿਖੋ।	ਆਪਣੇ ਘਰ ਦੇ ਪਿਆਰ ਦੇ ਮਹੱਤਵ ਤੋਂ ਜਾਣੂ ਹੋਣਾ। ਹੰਕਾਰੀ ਅੰਤ ਵਿੱਚ ਪਛਤਾਉਂਦਾ ਹੈ।	ਨਾਟਕ ਜਮਾਤ ਵਿਚ ਕਰਵਾਇਆ ਜਾਵੇਗਾ https://youtu.be/_iYDPHxyFTI
ਜੁਲਾਈ	ਕਵਿਤਾ- ਕਿਰਪਾ ਕਰਕੇ ਬਖਸ਼ ਲਿਖੋ ਵਾਰਤਕ- ਬੋਲੀ ਵਿਆਕਰਨ- ਮੁਹਾਵਰੇ ਗ ,ਘ, ਪੱਤਰ -11-20 ਲੇਖ -11-20 ਚਿੱਤਰ ਜਾਂ ਦ੍ਰਿਸ਼ ਦੇ ਆਧਾਰ ਤੇ ਵਰਣਨ ਕਹਾਣੀ -ਅੰਗ ਸੰਗ	ਪਰਮਾਤਮਾ ਨੂੰ ਯਾਦ ਕਰਨ ਲਈ ਹਮੇਸ਼ਾ ਕੋਈ ਪਾਠ ਕਰਨਾ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪਬੋਲੀਆਂ ਦੇ ਖੇਤਰ ਦੇ ਨਾਮ ਦੱਸੋ। ਨਸਾ ਕਰਨ ਵਾਲੇ ਵਿਅਕਤੀ ਦਾ ਆਪਣੇ ਪਰਿਵਾਰ ਤੇ ਕਿਹੋ ਜਿਹਾ ਪ੍ਰਭਾਵ ਪੈਂਦਾ ਹੈ। ਇਸ ਬਾਰੇ ਵਿਚਾਰ ਵਟਾਂਦਰਾ ਕਰੋ।	ਪਰਮਾਤਮਾ ਸਾਡੇ ਦੁਖਾਂ ਦਾ ਨਿਵਾਰਨ ਕਰਦਾ ਹੈ। ਮਨੁੱਖ ਆਪਣੀ ਬੋਲੀ ਤੋਂ ਪਹਿਚਾਣਿਆ ਜਾਂਦਾ ਹੈ। ਬੋਲੀ ਹੀ ਮਨੁੱਖ ਨੂੰ ਸਮਾਜ ਵਿੱਚ ਸੰਤੋਖ ਦਵਾਉਂਦੀ ਹੈ	https://youtu.be/CVPIxgrY6mE
ਅਗਸਤ	ਕਵਿਤਾ- ਤੂੰ ਮੇਰਾ ਪਿਤਾ ... ਵਾਰਤਕ-ਪ੍ਰਾਰਥਨਾ ਵਿਆਕਰਨ- ਬਹੁਆਰਥਕ ਪੱਤਰ -21-30 ਲੇਖ-21-30 ਅਣਡਿੱਠਾ ਪੈਰਾ, ਅਣਡਿੱਠੀ ਕਾਵਿ ਟੁਕੜੀ ਸਤੰਬਰ- ਦੁਹਰਾਈ ਅਤੇ ਪਹਿਲੀ ਇਕਾਈ ਪ੍ਰੀਖਿਆ	ਕੁਦਰਤ ਦੀਆਂ ਦਿੱਤੀਆਂ ਹੋਈਆਂ ਦਾਤਾਂ ਬਾਰੇ ਦੱਸਣਾ ਬੱਚੇ ਆਪਣੇ ਪ੍ਰਾਰਥਨਾ ਕਰਨ ਦੇ ਢੰਗ ਨੂੰ ਵਿਸਥਾਰ ਵਿੱਚ ਦੱਸਣਗੇ।	ਪਰਮਾਤਮਾ ਦੇ ਹੁਕਮ ਅਨੁਸਾਰ ਹੀ ਸਭ ਕੁਝ ਵਾਪਰਦਾ ਹੈ। ਸਾਨੂੰ ਹਮੇਸ਼ਾ ਪ੍ਰਾਰਥਨਾ ਕਰਦੇ ਰਹਿਣਾ ਚਾਹੀਦਾ ਹੈ।	ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦੀ ਰਚਨਾ ਸੁਖਮਨੀ ਸਾਹਿਬ ਪੜ੍ਹਨੀ ਅਤੇ ਵਿਚਾਰ ਸਾਝੇ ਕਰਨੇ।
ਅਕਤੂਬਰ	ਕਵਿਤਾ - ਸਿੱਤਗੁਰੂ ਨਾਨਕ ਪ੍ਰਗਟਿਆ ਵਾਰਤਕ- ਮੇਰੇ ਵੱਡੇ ਵਡੇਰੇ ਵਿਆਕਰਨ- ਬਹੁਆਰਥਕ ਅਗੇਤਰ ,ਮੁਹਾਵਰੇ -ਚ, ਛ , ਕਿਰਿਆ ਵਿਸ਼ੇਸ਼ਣ , ਬਹੁ ਅਰਥਕ 61-110 ਲੇਖ-31-40 ਪੱਤਰ -31-40	ਨਾਨਕ ਦੇਵ ਜੀ ਦੀਆਂ ਰਚਨਾਵਾਂ ਦੀ ਸੁਚੀ ਤਿਆਰ ਕਰੋ। ਪੁਰਾਣੇ ਸਮੇਂ ਵਿੱਚ ਵਰਜਸ਼ ਕਰਨ ਦੇ ਵੱਖ ਵੱਖ ਤਰੀਕਿਆਂ ਚਾਰਟ ਤਿਆਰ ਕਰੋ।	ਨਸਾ ਸਿਰਤ ਨੂੰ ਖ਼ਰਾਬ ਅਤੇ ਬਰਬਾਦ ਕਰਦਾ ਹੈ। ਅਰਦਾਸ ਕਰਨ ਨਾਲ ਮਨੁੱਖ ਪਰਮਾਤਮਾ ਨਾਲ ਜੁੜ ਕੇ ਆਪਣੇ ਕਾਰਜ ਸਿੱਧ ਕਰ ਲੈਂਦਾ ਹੈ। ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਨ ਨਾਲ ਹੀ ਅਗਿਆਨਤਾ ਦਾ ਦਾ ਹਨੇਰਾ ਦੂਰ ਹੁੰਦਾ ਹੈ।	ਪੁਰਾਣੇ ਲੋਕਾਂ ਦੇ ਰਹਿਣ ਸਹਿਣ ਨਾਲ ਸਬੰਧਤ ਚਾਰਟ https://youtu.be/a1FLHCWMPxM
ਨਵੰਬਰ	ਕਵਿਤਾ-ਜੰਗ ਦਾ ਹਾਲ ਇਕਾਂਗੀ- ਦੂਜਾ ਵਿਆਹ ਵਾਰਤਕ - ਤੁਰਨ ਦਾ ਹੁਨਰ ਕਹਾਣੀ -ਧਰਤੀ ਹੇਠਲਾ ਬਲਦ ਵਿਆਕਰਨ- ਪਿਛੇਤਰ, ਮੁਹਾਵਰੇ ਜ, ਝ, ਚਿੱਤਰ ਵਰਣਨ ਜਾਂ ਦ੍ਰਿਸ਼ ਦੇ ਆਧਾਰ ਤੇ ਵਰਣਨ ਅਣਡਿੱਠੇ ਪੈਰਾ, ਅਣਡਿੱਠੀ ਕਾਵਿ- ਟੁਕੜੀ	ਪੰਜਾਬ ਦੇ ਦਸ ਪ੍ਰਸਿੱਧ ਵੀਰ ਬਹਾਦਰਾਂ ਦੇ ਨਾਂ ਲਿਖੋ। ਦੂਜਾ ਵਿਆਹ ਨਾਟਕ ਜਮਾਤ ਵਿਚ ਕਰਵਾਇਆ ਜਾਵੇਗਾ ਇਕ ਫ਼ੌਜੀ ਨੂੰ ਜੀਵਨ ਵਿੱਚ ਕਿਹੜੀਆਂ ਕਿਹੜੀਆਂ ਐਕਸ਼ਨਾਂ ਦਾ ਸਾਹਮਣਾ ਕਰਨਾ ਪੈਂਦਾ ਹੈ। ਵਿਚਾਰ ਵਟਾਂਦਰਾ ਕਰੋ।	ਸਮਾਂ ਬਦਲਣ ਨਾਲ ਮਨੁੱਖ ਨੂੰ ਆਪਣੀ ਸੋਚ ਬਦਲਣੀ ਚਾਹੀਦੀ ਹੈ ਤੁਰਨ ਨਾਲ ਕੁਦਰਤ ਨਾਲ ਸਾਂਝ ਪੈਂਦੀ ਹੈ ਤੇ ਵਿਅਕਤੀ ਬਿਮਾਰੀ ਤੋਂ ਦੂਰ ਰਹਿੰਦਾ ਹੈ ਅੰਖੇ ਸਮੇਂ ਵਿਚ ਵੀ ਸਬਰ ਅਤੇ ਸੰਤੋਖ ਰੱਖਣਾ	ਵੀਰ ਰਸੀ ਕਵਿਤਾ ਗਾ ਕੇ ਸਮਝਾਈ ਜਾਵੇਗੀ https://youtu.be/66z-T8qROag
ਦਸੰਬਰ	ਦੁਹਰਾਈ ਅਤੇ ਜਮਾਤ ਦੀ ਪ੍ਰੀਖਿਆ			
ਜਨਵਰੀ	ਦੁਹਰਾਈ			
ਫ਼ਰਵਰੀ	ਦੁਹਰਾਈ			