

Class : IX		Session 2023-2024			Subject : Maths
MONTH	CHAPTER(TOPIC & SUBTOPICS)	LEARNING OUTCOME	RESOURCE	ACTIVITIES	MULTIPLE ASSESMENT , ART INTEGRATED AND EXPERIENTIAL LEARNING ACTIVITIES
APRIL	<p style="text-align: center;">UNIT – 1 Number System</p> <p>1. Review of representation of natural numbers, integers, rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers.</p> <p>2. Examples of non-recurring/non- terminating decimals. Existence of non- rational numbers (irrational numbers) such as $\sqrt{2}$, $\sqrt{3}$ and their representation on the number line.</p> <p>Explaining that every real number is represented by a unique point on the number line and conversely , viz every point on the number line represents a unique real number . Definition of nth root of a real number.</p> <p>3. Rationalization with precise meaning of the</p> <p>4.Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.</p> <p style="text-align: center;">UNIT – 2 Polynomial</p> <p>Definition of a polynomial in one variable, with examples and counter examples. Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial.</p> <p>Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Factors and multiples</p>	<p>Students will learn representation of real numbers on number line and rationalization of real numbers.</p> <p>Students will learn basic terms of polynomials.</p>	<p>National Digital Library of India(NDLI) Link: http://ndl.iitkgp.ac.in Diksha App Link to CBSE website: www.cbseacademic.nic.in</p>	<p>Represent square root spiral on number line. Link will be provided.</p>	WORKING MODEL ON REAL NUMBERS

May	<p>Zeros of a polynomial. Factorization of $ax^2 + bx + c$, $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem.</p> <p>Recall of algebraic expressions and identities.</p> <p>Verification of identities: $(x+y+z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$, $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)$, $x^3 \pm y^3 = (x \pm y)(x^2 \pm xy + y^2)$ and their use in factorization of polynomials.</p> <p>UNIT – 3 Co-ordinate Geometry</p> <p>The cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations .</p> <p>UNIT - 4 Linear equations in two variables</p> <p>Recall of linear equation in one variable. Introduction to the equation in two variables. Focus on linear equations of the type $ax + by + c = 0$. Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pair of real numbers, plotting them and showing that they lie on a line.</p>	Students will learn factorization of polynomials using algebraic identities.	<p>National Digital Library of India(NDLI)</p> <p>Link: http://ndl.iitkgp.ac.in</p> <p>Diksha App</p> <p>Link to CBSE website: www.cbseacademic.nic.in</p>	<p>Geometric representation of algebraic expression of $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ Link will be provided.</p> <p>Mind map Activity</p>	CROSS WORD PUZZLE (Multiple Assesment)
		Students will learn plotting of points in the plane and graph of linear equation in two variables.		<p>To find the hidden figure by plotting and joining the various points with given co-ordinates in a plane. Link will be provided.</p> <p>To obtain a linear equation and draw a graph which represents the linear equation. Link will be provided.</p>	CASE STUDY BASED QUESTIONS (REAL LIFE SITUATIONS)
JUNE	SUMMER VACATION				

JULY	UNIT – 5 INTRODUCTION TO EUCLID'S GEOMETRY History - Geometry in India and Euclid's geometry . Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions , common notions ,axioms \postulates and theorems . The five postulates of Euclid showing the relationship between axiom and theorem for example : (axiom1) Given two distinct points , there exists one and only one line passing through them . and (Prove) Two distinct lines cannot have more than one point in common.				
	UNIT – 6 Lines and Angles 1. (Motivate) If a ray stands on a line , then the sum of the two adjacent angles so formed is 180° and the converse 2.(Prove) If two lines intersect, vertically opposite angles are equal. 3.(Motivate) Result on corresponding angles , alternate angles , interior angles when transversal intersects two parallel lines. 4. (Motivate) Lines which are parallel to a given line are parallel. UNIT -12 HERON'S FORMULA Area of a triangle using Heron's formula without proof			Verify that the sum of angles in a triangle is ° 180 .	PPT BASED ON LINES AND ANGLES (Art Integrated Activity)
August	UNIT -7 TRIANGLES 1. (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle.(SAS Congruence) 2.(Motivate) Two triangles are congruent if the three sides one triangle are equal to three sides of the other triangle. (SSS Congruence) 3.(Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence) 4. (Prove) The angles opposite to equal sides of a triangle are equal. 5. (Motivate) The sides opposite to equal angles of a triangle are equal	Students will learn different types of congruence rules.	National Digital Library of India(NDLI) Link: http://ndl.iitkgp.ac.in Diksha App Link to CBSE website: www.cbseacademic.nic.in	To verify that the sum of any two sides of a triangle is always greater than the third side and difference of any two sides. Crossword Puzzle.	Explanation of congruency rules using different cut outs made of coloured sheets .(Art Integrated Activity)

	UNIT - 14 STATISTICS Bar graphs , histograms (with varying base lengths) and frequency polygons				
September	Revision and Half yearly examination				
October	<p>UNIT – 10 Circles</p> <p>Through examples, arrive at definition of circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, subtended angle.</p> <ol style="list-style-type: none"> 1. (Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse. 2. (Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord. 3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely. 4. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the 	Students will learn different parts of circle.	<p>National Digital Library of India(NDLI) Link: http://ndl.iitkgp.ac.in Diksha App Link to CBSE website: www.cbseacademic.nic.in</p>	<p>To Verify angle subtended by an arc of the circle at the center of circle is double the angle subtended by same arc in the remaining part of the circle.</p> <p>Link will be provided.</p> <p>To verify that the area of triangles on the same base and between the same parallel lines are equal.</p> <p>Link will be provided.</p>	
	<p>remaining part of the circle.</p> <ol style="list-style-type: none"> 5. (Motivate) Angles in the same segment of a circle are equal. 6. (Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse. 			<p>To find the following with the use of paper cutting & folding.</p> <ol style="list-style-type: none"> a) mid-pt of a line segment. b) \perp bisector of a line segment. c) \perp to a line from a point given outside it. <p>Link will be provided.</p>	

November	UNIT – 13 Surface area and Volume of spheres (including hemispheres) and right circular cones.	Students will learn use of how to find area and volume of sphere and cone .	National Digital Library of India(NDLI) Link: http://ndl.iitkgp.ac.in Diksha App Link to CBSE website: www.cbseacademic.nic.in		
December And January	Revision of whole Syllabus				

निर्धारित पुस्तकें-

क्षितिज, भाग -1 एन.सी.ई.आर.टी नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण

कृतिका ,भाग -1 - एन.सी.ई.आर.टी नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण

'नवयुग' हिंदी व्याकरण तथा रचना

मास	पाठ्यक्रम	सुझावात्मक गतिविधियाँ/कला एकीकरण	संसाधन/ फ़िलिप्स/मिश्रित अधिगम	सीखने के संभावित प्रतिफल	
अप्रैल	दो बैलों की कथा	नैतिक मूल्यों पर आधारित कहानी लिखें ।	आई सी आई(ICI) का प्रयोग करते हुए क्यूआर कोड(QR Code) की सहायता ले सकते हैं।	स्वतंत्रता के लिए संघर्ष करने की प्रेरणा ।	
		स्वतंत्रता आन्दोलन से जोड़ते हुए एक लघु नाटिका तैयार करें ।	https://www.youtube.com/watch?v=5zQP_0g9qRA&feature=youtu.be	नैतिक मूल्यों का ज्ञान प्राप्त होगा ।	
	साखियाँ एवं सबद (पहला)	दोहा गायन	कबीर के दोहों की अन्य पुस्तकें	निगुण भक्ति का ज्ञान मिलना ।	
			https://www.youtube.com/watch?v=PtPHPPMmGuE&app=desktop	बाहरी आडंबरों के प्रति सचेत रहने की प्रेरणा ।	
	उपसर्ग/प्रत्यय	प्रश्नोत्तरी (उपसर्ग और प्रत्यय)	सहायक व्याकरण पुस्तकें		
			https://www.youtube.com/watch?v=iz3g-xpUSZ4&feature=youtu.be	शब्द ज्ञान में बढ़ोत्तरी ।	
			प्रत्यय: https://www.youtube.com/watch?v=YYV6nAx6-Mhw&feature=youtu.be		
	संवाद	सामाजिक विषयों से संबंधित संवादों का स्वयं अध्ययन	https://youtu.be/Q31ev_ZZx5U	वार्तालाप करने की कला का ज्ञान ।	

	अनुच्छेद	सामाजिक बुराईयों से सम्बंधित विषयों पर लेखन -अभिव्यक्ति	सहायक व्याकरण पुस्तकें	लेखन कला का ज्ञान ।	
	अपठित गद्यांश	सामान्य ज्ञान में वृद्धि करते हुए प्रश्न हल करें ।	सहायक व्याकरण पुस्तकें	समस्या समाधान के कौशल का विकास	
मई	ल्हासा की ओर	किसी पर्यटन स्थल की वीडियो बनाना	https://www.youtube.com/watch?v=UxBYO35RDVo&feature=youtu.be	तिब्बत की संस्कृति का ज्ञान ।	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक		
	वाख	संगीत कला	https://www.youtube.com/watch?v=3Hw4-wWDDqk	सहज-साधना का ज्ञान ।	
	इस जल प्रलय में	बाढ़ से होने वाले नुकसान की सूची तैयार करना ।	श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	प्राकृतिक आपदा से निपटने के उपायों की जानकारी ।	
	समास	प्रश्नोत्तरी	सहायक व्याकरण पुस्तकें	शब्द भंडार में बढ़ोत्तरी	
	अपठित पद्यांश	प्रश्न हल करें ।	सहायक व्याकरण पुस्तकें	समस्या समाधान के कौशल का विकास	
	पत्र	लिखित अभ्यास	संसाधन/ फ्लिप/मिश्रित अधिगम	पत्र-प्रारूप की जानकारी और लेखन-कला का विकास	
	सूचना-लेखन	लिखित अभ्यास	https://youtu.be/CFwcizZ81_k	लेखन-कला का विकास	
जून					
जुलाई					
	उपभोक्तावाद की संस्कृति	विज्ञापन बनाना ।	उपभोग करने वाली वस्तुएँ	वस्तुओं का सीमित उपभोग करना ।	
	सवैये	कृष्ण का चित्र बनाए ।	https://www.youtube.com/watch?v=iIS1GIGgzOg&feature=youtu.be	सगुण भक्ति का ज्ञान होना ।	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक		
	वाक्य-भेद	प्रश्नोत्तरी	सहायक व्याकरण पुस्तकें	वाक्य ज्ञान में बढ़ोत्तरी ।	
	ई-मेल	लिखित अभ्यास	इंटरनेट व व्याकरण	लेखन -कला का विकास ।	
अगस्त					
	साँवले सपनों की याद	वृत्तचित्र तैयार करें ।	श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	ग्लोबल वार्मिंग की जानकारी मिलेगी ।	
				पक्षियों से प्रेम करने की प्रेरणा मिलेगी ।	

	कैदी ओर कोकिला	स्वतंत्रता सेनानियों को जेल में दी जाने वाली यंत्रणाओं पर पीपीटी	https://www.youtube.com/watch?v=-RDc5dYpUfY&feature=youtu.be	स्वंत्रता सेनानियों के बलिदान की जानकारी मिलना	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	देश भक्ति की भावना का विकास	
	मेरे संग की औरतें	भारत की प्रसिद्ध औरतों का कॉलाज बनाएँ	https://www.youtube.com/watch?v=Jc7uFdli_n8&feature=youtu.be	औरतों को लीक से हटकर अपना जीवन जीने की प्रेरणा देना	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक		
	अलंकार	काव्यगत विशेषताओं को ध्यान में रखते हुए एक कविता की रचना करें	https://www.youtube.com/watch?v=UduOnWdValc&feature=youtu.be	काव्यगत विशेषताओं की जानकारी	
			https://www.youtube.com/watch?v=RXBUsvsXyNY&feature=youtu.be		
			सहायक अतिरिक्त पुस्तकें		
	लघु कथा	अपने आस-पास की घटनाओं को मद्देनजर रखते हुए कोई कहानी लिखें		रचनात्मक लेखन-कला का विकास	
सितंबर	अर्द्धवार्षिक परीक्षा				
अक्तूबर					
	प्रेमचंद के फटे जूते	प्रेमचंद का चित्र बनाएँ	https://www.youtube.com/watch?v=UcSp10QVmBU&feature=youtu.be	दिखावे की संस्कृति का ज्ञान मिलना	
			प्रेमचंद की पुस्तकें		
	मेरे बचपन के दिन	अपने बचपन की किसी घटना को डायरीबद्ध करें	श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	साम्प्रदायिक एकता बनाए रखने की प्रेरणा	
	ग्रामश्री	चित्रकला के माध्यम से प्राकृतिक सुन्दरता दर्शाएँ	https://youtu.be/vSIPdjFdQuM	ग्रामीण और शहरी जीवन में अंतर स्पष्ट करना	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक		
	मेघ आए	गाँव के रीति-रिवाजों की सूचि तैयार करें	https://youtu.be/y2P5whRxP7g	प्राकृतिक सुन्दरता की आभास होगा	
	बच्चे काम पर जा रहे हैं	काम करते बच्चों के चित्र एकत्र करें	https://www.youtube.com/watch?v=eMgyfrDRUW8&feature=youtu.be	लोगों की स्वार्थपूर्ण भावना व आर्थिक विवशता का ज्ञान मिलना	
			श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक		
नवंबर					
	रीढ़ की हड्डी	एक लघु नाटिका तैयार करें	https://youtu.be/0atjTI_L5mE	लड़की के विवाह में आने वाली समस्याओं की जानकारी मिलेगी	
दिसंबर	पुनरावृत्ति				

ਜਨਕਰੀ	ਪੁਨਰਾਵ੍ਰਤਿ				
ਫਰਕਰੀ	ਗਾਥਿਕ ਪਰੀਖਾ				
Syllabus of Punjabi class 9th 2023-24					
ਮਹੀਨਾ	ਪਾਠਕ੍ਰਮ	ਕਲਾ ਏਕੀਕਰਨ / ਕਿਰਿਆਤਮਕ ਗਤੀਵਿਧੀਆਂ	ਗਿਆਨ ਪ੍ਰਾਪਤੀ	ਸਹਾਇਕ ਸਮੱਗਰੀ	
ਅਪ੍ਰੈਲ	ਕਹਾਣੀ - ਜਨਮ ਦਿਨ	ਨਾਟਕੀ ਰੂਪ, ਸੰਗੀਤ ਕਲਾ ਘੜੀ ਦਾ ਚਿੱਤਰ ਬਣਾਉਣਾ, ਰੋਜ਼ਾਨਾ ਕੰਮਾਂ ਦੀ ਸਮਾਂ ਸਾਰਨੀ ਤਿਆਰ ਕਰਨਾ, ਪੁਰਾਣੇ ਲੋਕਾਂ ਦੇ ਤਜਰਬੇ ਭਰਪੂਰ ਮੁਹਾਵਰਿਆਂ ਦਾ ਆਧੁਨਿਕ ਜੀਵਨ ਵਿੱਚ ਮਹੱਤਵ।	ਕੰਮ ਨੂੰ ਸਮੇਂ ਸਿਰ ਨੂੰ ਮੁਕਾਉਣਾ, ਸਮੇਂ ਦੀ ਸੰਭਾਲ ਕਰਨਾ, ਦੂਸਰਿਆਂ ਦਾ ਹੱਕ ਨਾ ਮਾਰਨਾ ਅਤੇ ਆਪਣੇ ਹੱਕ ਦੀ ਰਾਖੀ ਕਰਨਾ	ਸਮੇਂ ਨਾਲ ਸੰਬੰਧਤ ਚਾਰਟ	
	ਕਵਿਤਾ - ਸਮਾਂ			https://www.youtube.com/watch?v=cMR7om--aIg	
	ਮੁਹਾਵਰੇ (ਉ), ਸ਼ਬਦ ਸ਼ੁੱਧੀ				
	ਅਣਡਿੱਠਾ ਪੈਰਾ, ਲੇਖ, ਪੱਤਰ			https://youtu.be/G8S1nXfv5Ts	
ਮਈ	ਵਾਰਤਕ -ਵਹਿਮੀ ਤਾਇਆ	ਸੰਗੀਤ ਕਲਾ, ਚਿੱਤਰਕਾਰੀ ਫੋਟੋਗ੍ਰਾਫੀ ਕਲਾ, ਵਿਸਾਖੀ ਦੇ ਮੇਲੇ ਦਾ ਦ੍ਰਿਸ਼ ਪੇਸ਼ ਕਰਦੇ ਹੋਏ ਚਿੱਤਰਾ ਸਹਿਤ ਚਾਰਟ ਤਿਆਰ ਕਰੋ ਜਿਵੇਂ ਖਿਡੌਣੇ, ਵੱਗਾਂ, ਗਜਰੇ, ਪੰਘੂੜੇ ਆਦਿ।	ਮੇਲਿਆਂ ਦਾ ਸੰਬੰਧ ਰੁੱਤਾਂ ਅਤੇ ਫਸਲਾਂ ਨਾਲ ਵੀ ਹੁੰਦਾ ਹੈ। ਵਹਿਮ ਇੱਕ ਮਾਨਸਿਕ ਬਿਮਾਰੀ ਹੈ, ਕਦੇ ਵਹਿਮ ਨਾ ਕਰੋ।	ਦੇਸੀ ਮਹੀਨਿਆਂ ਦਾ ਚਾਰਟ	
	ਕਵਿਤਾ -ਵਿਸਾਖੀ ਦਾ ਮੇਲਾ				
	ਵਿਰੋਧੀ ਸ਼ਬਦ			https://www.youtube.com/watch?v=RV-Jc2ivMxo	
	ਅਣਡਿੱਠੀ ਕਾਵਿ- ਟੁਕੜੀ				
	ਮੁਹਾਵਰੇ (ਅ), ਲੇਖ, ਪੱਤਰ			https://youtu.be/oK8BWmiNCOQ	
ਜੂਨ	ਗਰਮੀ ਦੀਆਂ ਛੁੱਟੀਆਂ				
ਜੁਲਾਈ	ਕਵਿਤਾ - ਮੈਂ ਪੰਜਾਬੀ ਪੰਜਾਬ ਦਾ ਰਹਿਣ ਵਾਲਾ	ਨਾਟਕ ਕਲਾ, ਚਿੱਤਰਕਾਰੀ, ਫੋਟੋਗ੍ਰਾਫੀ ਕਲਾ, ਮਾਂ ਬੋਲੀ ਨਾਲ ਸੰਬੰਧਤ ਸਲੋਗਨ, ਟੱਪਾ ਜਾਂ ਬੋਲੀ ਆਦਿ ਲਿਖੋ। ਆਪਣੇ ਬਚਪਨ ਦੀ ਕੋਈ ਅਭੁੱਲ ਯਾਦ ਲਿਖਣੀ। ਅਜਿਹੀ ਘਟਨਾ ਨਾਟਕ ਦੇ ਰੂਪ ਵਿੱਚ ਬਿਆਨ ਕਰੋ ਜਿਸ ਵਿਚ ਪੁਲਿਸ ਨੇ ਕਾਮਯਾਬੀ ਹਾਸਲ ਕੀਤੀ ਹੋਵੇ।	ਮਾਤ ਭਾਸ਼ਾ ਦਾ ਸਤਿਕਾਰ, ਮਾਂ ਬੋਲੀ ਪੰਜਾਬੀ ਦਾ ਮਾਣ-ਸਨਮਾਨ ਵਧਾਉਣਾ। ਦੇਸ਼ ਪ੍ਰੀਤੀ ਪਿਆਰ, ਬਚਪਨ ਦੀਆਂ ਯਾਦਾਂ। ਕਿਸੇ ਦੇ ਲਾਲਚ ਵਿੱਚ ਨਾ ਆਉਣਾ ਆਪਣੀ ਗਲਤੀ ਕਬੂਲ ਕਰਨੀ।	ਮਾਂ ਬੋਲੀ ਨਾਲ ਸੰਬੰਧਤ ਹੋਰ ਕਵਿਤਾਵਾਂ ਪ੍ਰੋ: ਪੂਰਨ ਸਿੰਘ, ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਕ ਦੀਆਂ ਰਚਨਾਵਾਂ	
	ਵਾਰਤਕ - ਮੁੜ ਵੇਖਿਆ ਪਿੰਡ			ਲੇਖ ਨਾਲ ਸੰਬੰਧਤ ਮੇਰਾ ਪਾਕਿਸਤਾਨੀ ਸਫਰਨਾਮਾ ਵਿਸਥਾਰ ਨਾਲ ਸਮਝਾਉਣਾ।	
	ਇਕਾਂਗੀ - ਮੈਨਧਾਰੀ, ਲਿੰਗ ਬਦਲੇ			https://www.youtube.com/watch?v=3Rg151ejPAE	

	ਲੇਖ, ਪੱਤਰ, ਚਿੱਤਰ ਵਰਣਨ			https://youtu.be/a7O6sMYAMno	
ਅਗਸਤ	ਵਾਰਤਕ - ਖੁਸ਼ੀਆਂ ਆਪੇ ਨਹੀਂ ਆਉਂਦੀਆਂ	ਅਸਲੀ ਜੀਵਨ ਕਲਾ, ਨਾਟਕ ਕਲਾ, ਦੂਸਰਿਆਂ ਦੀ ਭਲਾਈ ਕਰਨ ਲਈ ਇੱਕ ਲਘੂ ਨਾਟਕ ਪੇਸ਼ ਕਰਨਾ। ਇੱਕ ਦਰੱਖਤ ਦੇ ਰੂਪ ਵਿੱਚ ਖੂਨੀ ਰਿਸ਼ਤਿਆਂ ਦਾ ਚਾਰਟ ਤਿਆਰ ਕਰੋ।	ਨਫਰਤ ਭੁਲਾ ਕੇ ਮੁਆਫ਼ ਕਰਨ ਵਿਚ ਅਸਲੀ ਖੁਸ਼ੀ ਹੈ ਸਾਨੂੰ ਦੂਜਿਆਂ ਦੀਆਂ ਗੱਲਾਂ ਵਿਚ ਨਹੀਂ ਆਉਣਾ ਚਾਹੀਦਾ, ਨਫੇ ਨੁਕਸਾਨ ਦਾ ਵਿਚਾਰ ਪਹਿਲਾਂ ਹੀ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੁੰਦਾ ਹੈ।	ਦੂਸਰਿਆਂ ਦੀਆਂ ਗੱਲਾਂ ਵਿਚ ਆ ਕੇ ਹੋਏ ਨੁਕਸਾਨ ਦਾ ਤਜਰਬਾ ਸਾਂਝਾ ਕਰੋ।	
	ਕਹਾਣੀ - ਸਾਂਝੀ ਕੰਧ				
	ਕਿਰਿਆ			https://www.youtube.com/watch?v=kj4HUSWvH-A	
	ਮੁਹਾਵਰੇ (ਏ), ਲੇਖ, ਪੱਤਰ, ਅਣਡਿੱਠੀ ਕਾਵਿ -ਟੁਕੜੀ			https://youtu.be/WtTLs5OJfpQ	
ਸਤੰਬਰ	ਛਿਮਾਹੀ ਪ੍ਰੀਖਿਆ				
ਅਕਤੂਬਰ	ਕਵਿਤਾ - ਨਵੀਂ ਪੁਰਾਣੀ ਤਹਿਜੀਬ	ਚਿੱਤਰ ਕਲਾ, ਸੰਗੀਤ ਕਲਾ ਨਵੀਂ ਤਹਿਜੀਬ ਨੇ ਜੋ ਪ੍ਰੰਪਰਾਵਾਂ ਛੱਡੀਆਂ ਹਨ। ਉਨ੍ਹਾਂ ਨੂੰ ਕਵਿਤਾ ਵਿੱਚੋਂ ਚੁਣ ਕੇ ਲਿਖੋ। ਪਵਿੱਤਰ ਰਿਸ਼ਤਿਆਂ ਨੂੰ ਦਰਸਾਉਂਦੀ ਹੋਈ ਕੋਈ ਲਘੂ ਕਹਾਣੀ ਲਿਖਣੀ।	ਨਵੀਂ ਤਹਿਜੀਬ ਦੇ ਆਉਣ ਨਾਲ ਭਾਈਚਾਰਕ ਸਾਂਝ ਅਤੇ ਸੱਭਿਆਚਾਰਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਜੋ ਖਤਮ ਹੋ ਰਹੀਆਂ ਹਨ, ਉਨ੍ਹਾਂ ਨੂੰ ਮੁੜ ਸੁਰਜੀਤ ਕਰਨ ਦਾ ਯਤਨ। ਸੱਚਾ ਅਤੇ ਪਵਿੱਤਰ ਪਿਆਰ ਅੱਜ ਵੀ ਦੁਨੀਆ ਵਿੱਚ ਕਾਇਮ ਹੈ।	ਨਵੀਂ ਅਤੇ ਪੁਰਾਣੀ ਤਹਿਜੀਬ ਬਾਰੇ ਪੰਜ- ਪੰਜ ਵਾਕ ਸਾਂਝੇ ਕੀਤੇ ਜਾਣਗੇ।	
	ਕਹਾਣੀ- ਬੱਸ ਕੰਡਕਟਰ			https://youtu.be/t8a_metF_n8	
	ਮੁਹਾਵਰੇ (ਸ)				
	ਲੇਖ, ਪੱਤਰ, ਵਿਸਮਿਕ			https://www.youtube.com/watch?v=JtrFqQYw8-Y	
ਨਵੰਬਰ	ਇਕਾਂਗੀ - ਸਿਰਜਣਾ	ਨਾਟਕੀ ਰੂਪ, ਅਸਲੀ ਜੀਵਨ ਕਲਾ, ਸੰਗੀਤ ਕਲਾ ਭਰੂਣ ਹੱਤਿਆ ਨਾਲ ਸੰਬੰਧਤ ਇੱਕ ਚਾਰਟ ਤਿਆਰ ਕਰੋ। ਸਾਹਿਬਜ਼ਾਦਿਆਂ ਦੀ ਸ਼ਹੀਦੀ ਨਾਲ ਸੰਬੰਧਤ ppt ਤਿਆਰ ਕਰੋ ਤੁਹਾਡੇ ਮਾਤਾ ਜੀ ਦੀਆਂ ਕਿਹੜੀਆਂ ਗੱਲਾਂ ਤੁਹਾਡਾ ਮਾਰਗ ਦਰਸ਼ਨ ਕਰਦੀਆਂ ਹਨ, ਦਸ ਸਤਰਾਂ ਵਿੱਚ ਬਿਆਨ ਕਰੋ।	ਭਰੂਣ ਹੱਤਿਆ ਪਾਪ ਹੈ, ਲੜਕਾ ਅਤੇ ਲੜਕੀ ਇੱਕ ਸਮਾਨ ਹਨ। ਬੱਚੇ ਮਾਤਾ-ਪਿਤਾ ਦੀਆਂ ਆਦਰਾਂ ਹੁੰਦੀਆਂ ਹਨ। ਉਨ੍ਹਾਂ ਦਾ ਵਿਛੋੜਾ ਅਸਹਿ ਹੁੰਦਾ ਹੈ। ਇਸ ਲਈ ਮਾਪਿਆਂ ਦੀ ਕਦਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ। ਮਾਂ ਦੀ ਆਗਿਆ ਦਾ ਪਾਲਣ ਕਰਨ ਵਾਲੇ ਬੱਚੇ ਹਮੇਸ਼ਾ ਨੇਕ ਇਨਸਾਨ ਬਣਦੇ ਹਨ ਅਤੇ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਸਫਲ ਹੁੰਦੇ ਹਨ।	ਭਰੂਣ ਹੱਤਿਆ ਨਾਲ ਸੰਬੰਧਤ ppt ਸਾਹਿਬਜ਼ਾਦਿਆਂ ਦੀ ਸ਼ਹੀਦੀ ਨਾਲ ਸੰਬੰਧਿਤ ਵੀਡੀਓ ਦਿਖਾਈ ਜਾਵੇਗੀ। ਉਨ੍ਹਾਂ ਮਾਵਾਂ ਦੀਆਂ ਕੁਰਬਾਨੀਆਂ ਨੂੰ ਸਾਂਝਾ ਕਰਨਾ ਜਿਨ੍ਹਾਂ ਦੇ ਮਾਰਗ-ਦਰਸ਼ਨ ਨਾਲ ਵੱਡੇ -ਵੱਡੇ ਦੇਸ਼- ਭਗਤ, ਸਾਇੰਸਦਾਨ ਅਤੇ ਗੁਰੂ ਪੀਰ ਬਣੇ।	
	ਵਾਰਤਕ - ਬੇਬੇ ਜੀ				
	ਕਵਿਤਾ - ਮਾਤਾ ਗੁਜਰੀ				
	ਮੁਹਾਵਰੇ (ਹ)				
	ਲੇਖ, ਪੱਤਰ, ਚਿੱਤਰ ਵਰਣਨ				
				https://youtu.be/e2lgkrwyU5c	

				https://www.youtube.com/watch?v=QSVuGNGjVwY	
ਦਸੰਬਰ	ਦੁਹਰਾਈ				
ਜਨਵਰੀ	ਦੁਹਰਾਈ				
ਫਰਵਰੀ	ਦੁਹਰਾਈ ਅਤੇ ਸਲਾਨਾ ਪ੍ਰੀਖਿਆ				

English Syllabus Class IX					
MONTH	TOPIC	LEARNING OUTCOMES	SOURCES (Link of videos)/ RESOURCES	SUGGESTIVE ACTIVITIES (to be guided by Teachers/Parents)	
APRIL	1.THE FUN THEY HAD	Skills of enjoying life and to remain happy even in difficult times	https://www.youtube.com/watch?v=giKCXAFWwB0	Study of visual resources at home and in the surroundings.	
			Literature reader BEEHIVE		
	2.THE SOUND OF MUSIC	Appreciating music and soothing sounds around us.	https://www.youtube.com/watch?v=wsWljcyQJYQ	To listen music programme on radio or T.V and write short description of the performances in your note book.	
			Literature reader BEEHIVE		
	1.THE ROAD NOT TAKEN (Poem)	Critical thinking ability	https://www.youtube.com/watch?v=riMcDBYV1qE	To write any of your favourite poem of Robert Frost.	
			Literature reader BEEHIVE		
	2.WIND (Poem)	Ignite imagination and learn to love mother nature.	https://www.youtube.com/watch?v=zDRc4DFD3TE	Pictorial description of the Poem.	
			Literature reader BEEHIVE		
MAY	3.THE LITTLE GIRL	Importance of family and importance of Grand parents in a child's life.	http://youtu.be/ExFRw2rzWKA	Make your family tree in your note book	
			Literature Reader		
	4.A TRULY BEAUTIFUL MIND	Development of scientific temper of student	https://www.youtube.com/watch?v=ytEym2FOsog	Write a character sketch of your favourite scientist.	
			Literature reader BEEHIVE		

	5. THE SNAKE AND THE MIRROR	Learn to sensitize towards other creatures of nature.	Literature Reader	Picturize thoughts of the doctor when he comes across the snake.	
	3.RAIN ON THE ROOF (Poem)	Learn to recognise nature's elements	https://youtu.be/IdiXpTPaiwc	How can the sweet moments of life help us when they change into sweet memories? Illustrate with the reference to the poem .	
			Literature reader BEEHIVE		
	1.THE LOST CHILD	Value for family relationship	https://www.youtube.com/watch?v=gvXCNu-4OwI	Sketching from nature and surroundings.	
			Supplementary Reader Moments		
	2.THE ADVENTURES OF TOTO	Critical thinking ability and love for animals.	https://www.youtube.com/watch?v=cxIIVTf5Iz0	Write an article on Amazon Fire, mention how many millions of animal species (endangered) are extinct.	
			Supplementary Reader Moments		
	3. ISWARAN THE STORYTELLER	Conceptual understanding	https://youtu.be/GfDazlXyG4k	Choose your favourite character from the story and write what you learnt from that character.	
			Supplemantary Reader Moments		
	GAP FILLING	Development of knowledge of Tenses	https://youtu.be/ttLDPc2EITU	B.B.C Grammar Module	
			B.B.C		
	DESCRIPTIVE PARAGRAPH	Enhance writing skills and learn how to organise thoughts.	https://youtu.be/PXLCDUUiARK	B.B.C Writing Module	
			B.B.C		
	DIARY ENTRY	Ability to convey meaning better.	https://youtu.be/IsM6VqpsIOw	B.B.C Writing Module	
			B.B.C		
JUNE	READING COMPREHENSION TYPE 1	Improve reading skills and ability to understand things in a better way.	https://youtu.be/xrEq-1UujOo	B.B.C Reading Module	
JULY			B.B.C		
	VACATIONS				

	6.MY CHILDHOOD	Learn the values of generosity, kindness and communal harmony.	https://www.youtube.com/watch?v=URB3ylODK_I	Describe any sweet memory of your child hood.	
			Literature reader BEEHIVE		
	5.A LEGEND OF THE NORTHLAND (Poem)	Importance of sharing and caring..	https://youtu.be/jNjhns27Z1k	Write on any legend in your scrapbook which your parents or grand parents narrated to you.	
			Literature reader BEEHIVE		
	6.NO MEN ARE FOREIGN (Poem)	To uplift their understanding in terms of unity in diversity around the world.	https://youtu.be/UqJrvTwpl_o	Share your views on the ways of living happy and peaceful life.	
			Literature reader BEEHIVE		
	STORY WRITING	Learn the art of framing stories	https://youtu.be/od2Oxm5tZ8c	B.B.C Module story writing.	
			B.B.C Module story writing		
AUGUST	READING COMPREHENSION TYPE 2	Improves reading skill.	https://youtu.be/xrEq-1UujOo	B.B.C Reading Module	
			B.B.C Module 1		
	4.IN THE KINGDOM OF FOOLS.	To be worldly wise	http://youtu.be/XBBmazLHePg	Make a PPT on the lesson ' In the kingdom of fools '. (maximum 10 number of slides)	
			Supplementary Reader Moments		
	5.THE HAPPY PRINCE	To learn importance of virtues in life.	https://www.youtube.com/watch?v=4GfSNLdTFrg	How are scarifice, love and compassion punished and rewarded in the story.	
			Supplementary Reader Moments		
	EDITING	To find mistakes in a given sentence or passage.	https://youtu.be/_Ep9xpAY6Xg	B.B.C Grammar Module	
			B.B.C		
	OMISSION	Ability to construct meaningful sentences.	https://youtu.be/_Ep9xpAY6Xg	B.B.C Worksheet Grammar Module.	
			B.B.C		
SEPTEMBER	HALF YEARLY				
OCTOBER	7.REACH FOR THE TOP	Determination plays an important role in one's life.	http://youtu.be/BXC4rbcVupU	Make a PPT on the biography of mountaineer Santosh Yadav	
			Beehive		

	10. KATHMANDU	To enable them to make diary entry as a travelogue.		Discuss in class the shrines you have visited or know about. Speak about one of them.	
			Beehive		
	7.ON KILLING A TREE (Poem)	Awareness about nature and learn how to protect it.	https://youtu.be/BuLKueqwTl8	Make a poster on 'SAVE TREES'	
			Beehive		
	8. A SLUMBER DID MY SPIRIT SEAL.(Poem)	To enable students to connect poem with real life.		Paraphrase the first poem of William Wordsworth.	
			Beehive		
	8.A HOUSE IS NOT A HOME	Development of reading and writing skill.	http://youtu.be/Kte4w4TbjF4	Draw a beautiful picture of your house.	
			MOMENTS		
	SENTENCE REORDERING	Organization of thoughts	https://youtu.be/GK5ul5uXlro	B.B.C Grammar Module	
			B.B.C		
	STORY WRITING	Learn the art of framing stories	https://youtu.be/od2Oxm5tZ8c	B.B.C Module story writing.	
			B.B.C Module story writing		
DECEMBER	COMPREHENSION PASSAGE TYPE 1 & 2	Improves reading skill.	https://youtu.be/xrEq-1UujOo	B.B.C Reading Module	
			B.B.C Module 1		
	11.IF I WERE YOU	To understand examples of wit and irony.	http://youtu.be/RCLaSP_P4oM	Extempore	
			Beehive		
	10.THE BEGGER	Reading skills.	http://youtu.be/QJlkzVk6BAw	Share your views on the topic 'Begging is a curse'.	
			MOMENTS		
	REVISION				
JANUARY	REVISION				
FEBRUARY	EXAM				
SST					
				Suggestive Activities	

MONTH	TOPIC	Learning Outcome (Action, Verb, Object & condition based)	SOURCES/RESOURCE (for flip and blended learning)	(Art integrated/subject enrichment/	
				experiential learning	
APRIL	L-1	To understand the major landforms features and	Text Book NCERT,	On Political Map of	
	INDIA- SIZE &	underlying geological structure.	Assignments,	India	
	LOCATION		PPT	1. Identification and Location of States and UTs with capital.	
			www.slideshare.net Size and location http://www.excellup.com	2. Standard	
GEOGRAPHY				Meridian Collect and share information about States and UTs in terms of languages, Food, Dress, Culture,	
				Tradition etc.	
	L-2	Association with various rocks and minerals as well as nature of soil types.	Text Book NCERT, Assignments PPT	On Political Map of	
	PHYSICAL		www.slideshare.net	India locate and identify 1. Mountain and Hill ranges. 2. Peaks	
	FEATURES OF			3. Plateaus, Deserts and Ghats	
	INDIA		Revision notes, textbook solution http://www.topprlearning.com	Model making to show the different physical	
				features	
	L 3 DRAINAGE	1. To understand the river system of India	Text Book NCERT, PPT www.slideshare.net River System	1. Locate and label the rivers on political map of India.	

			http://www.jagranjosh.com	2. Prepare a chart on work of a river.	
		2. Aware of the role of rivers in the evolution of human society.			
Assessment:	<u>Oral Test</u>				
MAY	L- 1	Familiarizing the	Text Book NCERT, PPT www.slideshare.net	Digital survey of a	
	THE STORY OF VILLAGE PALAMPUR	Fchildren to the population related concepts and sensitization of the learner,	Factors of production, farming and nonfarming activities http://www.learnbse.com	village including:location total area of the village, facilities available here like: education, market, medical, market, electricity supply, communication	
		Appreciation of govt. initiative to alleviate poverty		,nearest city and town	
				to the village	
	(To be assessed in periodic				
	assessment)				
ECONOMICS	L- 2 PEOPLE AS RESOURCE	Familiarizing to a few population related concepts and sensitization of a child that people as assets can participate and contribute in nation building	Text Book NCERT, PPT www.slideshare.net Human capital formation video	1. Collect the information regarding govt. steps to provide education to all like expansion of primary school system, Sarv Shiksha Abhiyan, development of vocational streams, Navodaya Vidyalaya and Mid-Day meal etc. 2. Survey in nearby locality	
			http://youtube/7ry58cL4s		

				regarding the engagement of people in different economic activities –Primary, Secondary and Tertiary	
POLITICAL SCIENCE	L- 1	To understand the term democracy and its functions.	Text Book NCERT,	1. Students can	
	WHAT IS DEMOCRACY, WHY DEMOCRACY	To identify the salient features of democracy The learner can distinguish between democratic and non- democratic form of govt.	PPT, www.slideshare.net	locate important democratic countries on the world map.	
			Meaning of democracy	2. Prepare a chart on Fundamental rights and duties	
			Arguments against and in favour of democracy		
			http://mycbseguide.co m		
Assessment:					
	MCQ/ Oral Test				
	Periodic Test				
JUNE	Project on Disast	e a. Create awareness in them about different	1.Content accuracy, originality and analysis	The Project Report should be handwritten.	
	Management	disasters, their consequences and management b. prepare them in advance to face such situations c. ensure their participation in disaster mitigation plans d. enable them to create awareness and preparedness among the			
		community	2. Presentation and creativity:2m 3. Viva Voce :1m		
		The learner explains how the Indian constitution was	Text Book NCERT, PPT	1. Prepare a chart on important leader who were the makers of the constitution of India.	
		made	www.slideshare.net	2. Prepare a Quiz on the constitution of India.	

JULY			Need of constitution, Making of Indian constitution, The constituent Assembly http://www.mycbseguide.com	3. Write a short biography of Dr. B.R. Ambedkar and share it with peers through e-mail.	
POLITICAL SCIENCE	L- 2 CONSTITUTIONAL DESIGN	Understand its foundational values.			
		Compares our constitution with other constitution of the world.			
	L- 3	The learner	Text Book NCERT, PPT	Role play on topic why elections should be held in India.	
	ELECTORAL	Understands the importance of election in democracy Locate places on the map of India indicating lok sabha constituencies.	www.slideshare.net	Prepare a write up on women parliamentarians in India.	
	POLITICS		Political competition,		
			Democratic election, Election Campaign, http://www.mycbseguide.com		
ECONOMICS	L-3 POVERTY AS CHALLENGE	Understanding of poverty as a challenge and sensitization of the learner, Appreciation of govt. initiative to alleviate poverty	Text Book NCERT, PPT, www.slideshare.net Indicators of poverty, vulnerability, poverty line ,interstate disparities	Enlist the programme initiative by the govt. to alleviate poverty like	
			http://mycbseguide.com	NREGA 2005, PMRY, REGP, SGSY, PMGY AAY ETC.	
				2. Prepare a graph to show the poverty ratio in Indian States named	
				Bihar, Odisha, Assam,	
				Madhya Pradesh, Uttar	
				Pradesh (2011-12)	
Assessment:					
	Weekly Test				

AUGUST	L – 1	Locate France on map of Europe	Text Book NCERT, PPT	Role play to show the reason of revolution in France.	
		Identifies various factors that led to the outbreak of revolution. Categories the rigid power structure in 18 th century French society. Analyze s the role of intellectuals in propagating ideas of liberty and equality. Assesses the impact and legacy of the	www.slideshare.net Causes of the French	Making the chart to highlight specific attributes which differentiate	
	FRENCH	revolution	Revolution,	‘Revolutions’ from movements by taking several examples from both categories.	
HISTORY	REVOLUTION		Declaration of rights of man and the citizen,		
			Reign of terror. www.history.com		
	L - 2 SOCIALISM IN EUROPE AND THE RUSSIAN REVOLUTION	Familiarize the students with the names of people , famous leaders, the different types of ideas that inspired the revolution and significance of revolution.	Text Book NCERT, PPT www.slideshare.net From Tsar to USSR www.nationalgeograp	Students can make the timeline of events of different revolutions. Discussion regarding comparative study of Russian revolution and	
			hic.com	French revolution	
ECONOMICS	L - 4 FOOD SECUIRY IN INDIA	1. Exposing the child to an economic issue which is basic	NCERT BOOK, PPT www.slideshare.net Estimated calorie	1. Prepare a chart on estimated calorie requirement as per day, by age, sex, and physical Activity level.	
		TYnecessity of life.	requirement	2. Collect	
		2. Appreciate	https://health.gov.in	information about MSP of	
		and critically look at the role of govt. in ensuring food supply.	MSP of RICE, WHEAT,	RICE, WHEAT,	
			COTTON	COTTON since	
			www.Fci.gov.in	2010	
Assessment	Revision Test				
			REVISION		
SEPTEMBER			MID TERM		

SEPTEMBER			EXAMINATION		
OCTOBER	L – 2	1. Students will be aware about critical significance of Nazism	Text Book NCERT, PPT	Movies and videos:	
		Rin shaping the politics of modern world.	www.slideshare.net	1. HITLER: The	
	NAZISM AND		Hitler’s Rise to power	Rise of Evil	
	RISE OF HITLE			2. The Great dictator	
HISTORY					
		Familiarize students with the speeches and writings of Nazi leaders.	www.facinghistory.org	Chart of Dateline of different events occurred in Germany.	
				Quiz related with major events and peculiar features of Nazi thinking.	
	L - 4 FOREST SOCIETY & COLONIALISM	1.Understand social & cultural world of forest communities 2.Impact of colonialism Agrarian transformation	NCERT Text Book PPT	Students will prepare a report on the life nomadic tribes in different parts of	
		3.Forest movement in	www.slideshare.net	India	
		Baster and in			
		Indonesia			
	only to be assessed in annual exams (To be assessed in periodic only)				
	L – 4 CLIMATE	1. Enable the	Text Book NCERT PPT	1. Activity based on food habits, clothing, festivals etc. associated with several seasons and different regions will be done.	
		students about the importance and unifying role of monsoons.	www.slideshare.net	2. Locate and label the areas receiving rainfall less than 20 cm. and over 400 cm.	
		2. Students will be able to identify the various factors influencing the climate and explain the climatic variations of our country and its impact on the life of the people.			

			http://www.mycbseguide.com		
Assessment	Weekly Test				
NOVEMBER	L – 4	1. Understand the parliamentary system of executive accountability to the legislature.	Text Book NCERT	1. Role play of	
		2. Distinguish between nominal and real executive authorities and functions . Sensitize the key role of parliament and its procedure.	PPT www.slideshare.in cabinet ministers along with their portfolios	political and permanent executives. 2. A chart based on comparative study on Lok Sabha and Rajya Sabha. 3. Prepare a chart listing different cabinet ministers along with their portfolios.	
POLITICAL SCIENCE	WORKING of	Provide an overview of central government structures.	www.india.gov.in Working of Lok Sabha and Rajya Sabha		
	INSTITUTIONS		www.loksabha.nic.in		
	L – 5	1. Develop	Text Book NCERT PPT www.slideshare.in	Prepare a flow chart listing fundamental rights granted to the citizens of India.	
		citizen's awareness of their rights. Introduction to and appreciation of fundamental rights. 2. Recognition of the ways in which these rights are exercised and denied in real life situation	www.slideshare.in		
			fundamental rights http://knowindia.gov.in		
	DEMOCRATIC				
	RIGHTS				
GEOGRAPHY	L – 5	1. The students will be aware about the nature of diverse flora and fauna as well as their distribution.	Text Book NCERT PPT	1. Prepare a chart to show the variety of Indian forests found in different regions.	
		2. Develop concern about the need to protect the bio diversity of our country	www.slideshare.in	2. Enlist the medicinal plants found in your neighborhood.	

	NATURAL		Types of forest, importance and conservation of forest https://sites.google.com		
	VEGETATION				
	AND WILD LIFE				
	(To be assessed				
	in annua				
	<u>exams)</u>				
	L – 5	1. To analyze the uneven nature of population distribution and show concern about large size of our population.	Text Book NCERT, PPT www.slideshare.net	Conduct a class census by preparing a questionnaire on performance, health status and education and family members.	
		2. To understand the various occupations of people and explain various factors of population change.			
			Census of India https://censusindia.gov.in		
	POPULATION		Demographics of India https://en.m.wikipedia.org		
Assessment	Quiz/ Oral Test				
DECEMBER	L – 5 PASTORLISTS IN THE MODERN WORLD	Students will be aware about pastoralist and pastoralism in the	Text Book NCERT	1. Locate and label the different pastoral communities as per their regions.	
		Nmodern world, with the formation of modern states, marking of boundaries, contraction of pastures and expansion of	Pastoralism in India: A scoping Study https://assets.publishing.service.gov.uk	2. Prepare a chart about acts passed by the Britishers to check movements of pastoral communities.	
HISTORY		markets			
Assessment	Periodic Test				
January			REVISION		
Assessment	Weekly Test				
February	Final Examination	n			
Subject :PHYSICS					

MONTH	TOPIC	LEARNING OUTCOMES(Action Verb,object and condition based)	SOURCE/RESOURCES (flip/blended learning)	SUGGESTED ACTIVITIES(Art integration /subject enrichment /experiential learning)	
April	CHAPTER 8:-MOTION	The learners will be able	NCERT/STATE TEXT BOOK		
	Introduction Motion along a straight line	* To understand motion along a straight line	https://youtu.be/F- WGuMkT79g	Experiential learning -CHOREOGRAPHY (related to distance /displacement ,Scalar/vector, speed/velocity)	
	Scalar and vector quantities Motion along a straight line Distance Displacement Uniform motion Non uniform motion	*Differentiate between the distance and displacement and calculate them in real life.	https://youtu.be/oDl49HI2 LB4	*Find the magnitude of the displacement between your home and School	
			https://youtu.be/eUXv- z8JcEs		
			https://youtu.be/LezCQhY kC0c		
	Speed ,Average speed Speed with direction Average velocity SI units Numericals	*To differentiate between average speed and velocity with day to day observations *To understand and evaluate the numerical value of different quantities and also associate it with their units.	https://youtu.be/5H4M7P Xtaek	Subject enrichment- Measure the time it takes you to walk from your house to your bus stop or the school. And calculate average speed	
		*To calculate using data given, such as distance, velocity, speed	https://youtu.be/BFmx43T tRa8		

	Acceleration and retardation Uniform acceleration and non uniform acceleration Numericals	*Understand the difference between acceleration and retardation from daily life examples and able to calculate	https://youtu.be/wQFkzSq55JU	*List any five examples of uniformly accelerated motion from your day to day observation	
	Graph : concept and importance Graphical representation of motion by s- t graph	* able to analyse and interpret graph * represent motion of given situation in graphical manner	https://youtu.be/OIW0jtYErHM	Subject Enrichment *Draw different types of s-t graph as listed in Assignment	
ASSESMENT	Weekly written test, Oral test				
MAY	Graphical representation of motion by v - t graph Calculation of acceleration and distance from Numericals based on graphs	*To identify the type of motion from d-t graph and v-t graph. *To develop numerical solving skills	https://youtu.be/5Q3UBGr0UwQ	*Analyse Activity 8.10 (NCERT) Plot the distance-time graph for their motions on the same scale and interpret	
	Equations of motion by graphical method-		https://youtu.be/qO4pHr8hWVQ	Experiential Learning -*Make Presentation on all types of graph using tools.	
	Numerical problems based on equations of motion. Uniform circular motion	*To evaluate speed in circular motion * To develop numerical solving skills	https://youtu.be/kbDgz-7dY9M https://youtu.be/T4RS84XIIfU	Art integration - Model making - Prepare Spirograph	
ASSESMENT	Quiz, Weekly written test, Periodic test-1 syllabus- Motion(full)				
JUNE	SUMMER BREAK				

JULY	CHAPTER 9- FORCE AND LAW OF MOTION Force – Definition , effects Types of force Balanced and unbalanced forces	* Learner are able to differentiate between balanced and unbalanced forces * To analyse the effect of force	https://youtu.be/cwLMejalz-E	Experiential learning -*Make an activity based short video on laws of motion(performed by urself)	
	Newton’s first law of motion Definition of inertia Reasoning questions based on first law.	*To learn and understand the scientific definition of force	https://youtu.be/6nE0OcuBxbk —	Subject Enrichment * To find at least 10 examples from your daily life and classify in different types of inertia	
	Newton’s second law of motion. $F=ma$ Momentum, impulse – definition and units	*To understand the terms like , impulse and momentum and derive their units	https://youtu.be/FCUN6HEmnz8 —	* Find out few activities involving momentum in your daily life	
		*Interpret and apply the knowledge of terms in solving numericals	https://youtu.be/5fcVDF4DNXE	Art integration - Viscosity printing	
	Newton’s third law of motion , momentum.		https://youtu.be/LG2cIwspwMU	Subject enrichment -prepare Newton's laws of motion foldable wheel.	
ASSESMENT	Model Making				
AUGUST	CHAPTER 10- GRAVITATION Introduction Newton’s Law of gravitation Importance Numericals	* To understand the importance of newton’s law of gravitation. And universal constant	https://youtu.be/sYaeBZIGc4I	Art integration activity -Gravity painting	
		* understand the phenomenon related to gravitation	https://youtu.be/iFTPcXzC-z8		
ASSESMENT	oral and written test		https://youtu.be/mKgqvOkdX9g		
	Free fall Difference between ‘g’ and ‘G’. Derive formula of ‘g’ Value of ‘g’ on earth Difference between Mass and Weight	* Evaluate the numerical value of g at different places like earth and moon. Or at poles and equator of the earth	https://youtu.be/OiNqgT_82a4	Subject enrichment - Perform any two experiments related to concept of floatation and record its video	

	<p>GRAVITATION Thrust, Pressure Applications Up thrust ,Buoyancy, Density, Relative density. Why do objects float and sink? Archimedes Principle Numericals</p>	<p>*To understand the applications of thrust and pressure. understand the concept of flotation.</p> <p>* To relate Archimedes principle with floating objects.</p>	<p>https://youtu.be/UKl33k-qQ0k</p>	<p>Experiential learning-Establishing the relation between the loss in weight of a solid when fully immersed in</p> <p>a) Tap water b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.</p>	
ASSESMENT					
SEPTEMBER	<p>SYLLABUS - Ch-Motion ,force and law of motion Gravitation(excluding floatation)</p>	<p>MID-TERM EXAMINATION</p>			
OCTOBER	<p>CHAPTER-11 WORK , ENERGY AND POWER Energy and its forms Kinetic energy Derive the expression for KE Numericals on KE Potential energy Derive the expression for PE</p>	<p>*To Identify and list different types of energy and relation between mass and velocity through KE</p>	<p>https://youtu.be/lrjoZ8ciHDE</p>	<p>* List 5 examples of transformation of different forms of energy into kinetic and potential energy With the help of pendulum list the transformation of energy and note down in your note-copy</p>	
		<p>*The learner are able to derive expression of KE and PE</p>	<p>https://youtu.be/pSZV77U12RQ</p>		
	<p>Numericals on PE Transformation of energy Law of conservation of energy Conversion of PE to KE during a free fall</p>	<p>* To develop problem solving technique and understand the phenomenon of transformation of energy</p>	<p>https://youtu.be/N6TKBpQUzrM</p>	<p>Subject enrichment- Calculate electricity bill of your home for the month</p>	

		*To comprehend various examples showing transformation of energy during free fall	https://youtu.be/uEzCP-FMn8o		
	Power, Numericals related to power				
ASSESSMENT	Weekly written and oral test	and project			
NOVEMBER					
	CHAPTER 12 SOUND Introduction Production of sound Propagation of sound needs medium to travel . Types of waves – Longitudinal and transverse waves	*Able understand how the sound is produced and propagates *Able understand different types of waves and their characteristics	https://youtu.be/32q5x-81H5Q	EXPERIENTIAL LEARNING-HOW SOUND WAVE PROPOGATE https://www.youtube.com/watch?v=T0LsFQI0N98	
	Characteristics of wave – Wavelength , speed , amplitude and frequency Numericals Speed of sound in different media Reflection of sound Numericals based on echo	*Able apply concept of multiple reflection of sound in real life situations *understand the concept of ultrasound list the applications of ultrasound	https://youtu.be/Na5Rnte kuQQ	Experiential learning- Verification of the Laws of reflection of sound . MODEL MAKING- create your own model on Reflection of sound and note down time of reflection of sound	
	Reverberation Uses of multiple reflection of sound, Range of Hearing Infrasound Ultrasound Applications of ultrasound	*Able apply concept of multiple reflection of sound in real life situations *understand the concept of ultrasound list the applications of ultrasound	https://youtu.be/Na5Rnte kuQQ https://youtu.be/gacuSiml ov8	Experiential learning- Using digital app, show difference between echo and reverberation .	
			https://youtu.be/LR-AYApQbNE		
ASSESSMENT	synopsis and worksheet				
DECEMBER	PERIODIC TEST-II	SYLLABUS- FLOATATION AND WORK AND ENERGY			
(CHEMISTRY)					

Month	Topic	Learning outcomes	Sources/resources(for flip learning and blended learning)	Suggestive activities/Art integrated/Subject enrichment/experiential learning	
April	Chapter 1 :- Matter in our surrounding		NCERT/State Textbook		
	introduction				
	Introduction Matter: Define : examples,characterstics of matter.	Define matter with examples from day today life and state the composition of Matter	Link 1 https://youtu.be/doDQ0Mo9Kdg	Identify various types of matter around you and classify them on the basis of their properties.	
		Analyze the characteristics of the particles of matter applicable in day today life activities	Link https://youtu.be/c9MsAHP_Pcvc		
	Interconversion of various states of matter	The students will be able to :- * Evaluate the conditions for the inter conversion of various state of matters. * Explain related terms:- Melting, Freezing, Boiling, Condensation and sublimation	Link 3 https://youtu.be/ENVKQVINDLY	Measure the temperature of water and observe the change in water on keeping it in refrigerator and on boiling	
	Latent heat of fusion and latent heat of vaporisation	*Apply the knowledge of latent heat (Ice, Steam) in day today life activities.	Link 4. https://youtu.be/PXXh0tjFlh0	Keep the napthalene balls in clothes and observe the change after sometime.	
	Evaporation: Define,examples Factors affecting evaporation	The Students would lbe able to:- *Describe evaporation .*.Analyse the difference between evaporation and boiling . *.Interpret the factors affecting evaporation and appreciate the role of evaporation in daily life.	Link 5. https://youtu.be/YHb8NIrdWUk	Heat the water and see the change in temperature of it.	
May	CHAPTER 2:-IS MATTER				
	AROUND US PURE				
			LINK 1		

INTRODUCTION:	The learners would be able	https://www.youtube.com/watch?v=pWZlICXw3Ng	Classify any five pure substances and mixtures around you	
Pure Substances, Elements,	*To understand pure substances,elements,mixtures and compounds.	LINK 2		
mixtures and compounds	*To differentiate between elements,mixtures and compounds.	https://www.youtube.com/watch?v=NV_JkEmuVJc&t=25	Compare the properties of pure substances and mixtures.	
Definations with examples				
Mixtures :Types of mixtures	*To differentiate between	LINK 3		
Homogeneous mixtures and hetrogeneous mixture.	homogeneous and hetrogeneous mixture with day to day life activities.	https://www.youtube.com/watch?v=msScIkLW4Lk	Prepare the mixture of sugar in water,salt in water,sand in water,chalk powder in water and classify them as homogeneous and hetrogeneous mixtures.	
		LINK 4		
Differences between them and examples of both.	To understand that mixtures are very important in our daily life.	https://www.youtube.com/watch?v=dW1Vn6cbTRE		
		LINK 5		
Solutions:The components of Solution:- Solute and Solvent	*To understand the different types of solutions.	https://www.youtube.com/watch?v=SaNZAyqOeT0	Dissolve different solutes in solvent and compare their solubilities.	
	*To calculate the mass percentage of solutions.	LINK-6		
	*To differentiate between three types of solutions.	https://www.youtube.com/watch?v=urcxDUJloyI		
		LINK 7		
Types of solution: Saturated Solution, Unsaturated Solution and Supersaturated Solution	To understand the significance of saturated solution,unsaturated solution and supersaturated solution.	https://www.youtube.com/channel/UCTB_Mn10B2ZL3RUnPteVKqA	Make a saturated solution ,	
		LINK 8	unsaturated solution and	

			https://www.youtube.com/watch?v=qcpiDBya_Nw	observe the changes in between them.	
June	SUMMER HOLIDAYS				
July					
			LINK 1		
	True solution: Defination, Examples of True Solution, Properties of true of solution	To understand the meaning of true solution	https://www.youtube.com/watch?v=4dA2-WcS4		
		To realize the impotance of true solutions in our day to day life.	LINK 2	Make an activity based short video to prepare a true solution	
			https://www.youtube.com/watch?v=w4BU_gg-R9g		
	Suspension solution Definations with examples, Properties of Suspension solution	*To understand the properties of suspension solution	LINK 3	perpare suspension solution	
		*Explain Tyndall effect with examples from day to day life.	https://www.youtube.com/watch?v=LkUs4qZ9BRo&t=36s	and observe its properties.	
		*Apply their knowledge in daily life.	LINK 4		
			https://www.youtube.com/watch?v=8Xcpq6e8pBY&t=6s		
			LINK 5		
	Colloidal solutions : Define with examples.	*Identify the various types of colloidal solutions	https://www.youtube.com/watch?v=JB_9ZbUoEFE	compare the examples of various types of colloids.	
	Properties of colloidal solutions.		LINK 6		
			https://www.youtube.com/watch?v=w4BU_gg-r9Q		
			LINK 7		
	Difference between true solution,colloidal and suspension solution.	To compare the properties of true solution, suspension and colloidal solution.	https://www.youtube.com/watch?v=a4GF5bcMuMs	Prepare all the three types of solutions and classify them on the basis of their properties.	
			LINK 8		
			https://www.youtube.com/watch?v=XEAiLm2zuvc		
SEPTEMBER	CHAPTER 3 ATOMS AND MOLECULES				

			LINK 1		
	laws of chemical combination,law of constant prportion	*students will able to differentiate between two laws	https://youtu.be/pElQ93tQ-yo	Observe mass of reactant and mass of product is equal during chemical reaction.	
OCTOBER			LINK 2		
	Atom, atomic size,modern symbols	*students will able to understand formation of atom.	https://youtu.be/l1VXM_b2KFY		
		*critical thinking			
			LINK 3		
	Atomic massMolecule,molecule of elements and compound	*students will able to understand difference between atom and molecule.	https://youtu.be/KuyB-445gQM	draw structure of compounds by using balls and iron stick	
		*students will understand how to make chemical formula of copound			
			LINK 4,5		
	Ion,Chemical formula, molecular mass,formula unit mass	* students will enable to calculate M.M and F.U.M	https://youtu.be/FclVPVLt2L4		
NOVEMBER			https://youtu.be/tmDmBqCrhNY		
	CHAPTER 4 STRUCTURE OF ATOM		LINK 1		
	introduction atomic structure,thomson's model of atom	* students enable to draw different structure of atom	https://youtu.be/ILwnACfo7hY	Compare thomson model with water melon	
			LINK 2,3		
	Rutherford's model of an atom,drawbacks,Bohr's model of atom,neutron	* students will able to differentiate different theories	https://youtu.be/1EdTw4l6L0U		
			https://youtu.be/fm2C0ovz-3M		
			LINK 4		
	how are electron distributed in different orbits(shells), valency,atomic number and mass number	* students will find valency from electronic configuration.	https://youtu.be/eMY_tRR1Hls		
		*able to learn atomic mass and atomic number			
			LINK 5		
	isotopes and isobars	*to enable the students to learn isobars and isotopes	https://youtu.be/qgJW1gOnCxQ	uses of isobars in daily life	

REVISION					
BIOLOGY					
MONTH	TOPIC	LEARNING OUTCOME (Action Verb,object and condition based.	SOURCES/RESOURCES(Flip blended learning)	SUGGESTIVE ACTIVITIES(Art integration/subject enrichment/experientia l learning)	
				Experiential Learning	
APRIL	Chapter -15 The Fundamental	1. Students will be able to define and explain the	NCERT BOOK OF SCIENCE for classIX	1. The learner will be asked to make poster of prokaryotic cell.	
	Unit of Life	term cell.		2. Students will be able to compare diffusion and osmosis and identify	
		2. Enlist the postulates of cell theory.	https://youtu.be/tZW1bjDHnTY	different types of osmosis with respect to concentration of the cell.	
		3. Identify various types of cells and correlate their		3. To prepare a temporary mount of onion peel.	
		shapes and functions.			
		4. Explore and identify the discovery of dead and			
		living cells.			
	ASSESSMENT	Weekly written test,Oral test			
MAY	Chapter -15 The Fundamental	1. Students will be able to differentiate between	NCERT BOOK OF SCIENCE for Class IX		
	Unit of Life	prokaryotic and eukaryotic cell.		Subject Enrichment	
		2. Identification of various organelles	https://youtu.be/N2vp98dy35k	1. Identify the structure and location of different organelles with the help of	
		3. Students will learn functions of various organelles,	https://youtu.be/37ZqbgJ68vs	diagrams.	
		location and function of ER,Golgi Apparatus,	https://youtu.be/hME6z4G39s	2. Students will be able to exhibit creativity and accuracy in diagrams.	
		lysosomes,Mitochondria,Plastids .		3. To prepare a temporary mount of cheek cell and compare types of cell organelles.	

	ASSESSMENT	Quiz,Weekly written test,Periodic test-1 syllabus Fundamental Unit of Life(Upto prokaryotic cell and eukaryotic cell)	https://youtu.be/IBj0Y1Uh0M8	4. Students will be able to differentiate between plant cell and animal cell.	
JUNE					
	SUMMER BREAK				
JULY	Chapter -15 The Fundamental	1. Introduction of Cell division		1.Students will exhibit their creativity through model making.	
	Unit of Life	2. Students will be able to differentiate between	https://youtu.be/Fj79A-84Zyo		
		mitosis and meiosis.			
	ASSESSMENT	MODEL MAKING			
AUGUST	Chapter -6 Tissues	1. State the importance of tissues and different	NCERT BOOK OF SCIENCE for		
		types of tissues.	class IX.		
		2. Explain the difference between plant and animal	https://youtu.be/IIQD12mf-dk		
		tissues.	https://youtu.be/7COBSz7DxTw	Subject Enrichment	
		3. To classify different types of plant and animal	https://youtu.be/09Fsj8BpH8Y	1.Students will observe structures of different plant and animal tissues	
		tissues and explain their structure,location and	https://youtu.be/Prk-T2nDtCw	through slides.	
		functions.	https://youtu.be/2iLtGXRQD2Q	2.Students will be able to draw different types of epithelial and connective	
		types of tissues.	class IX.		
		2. Explain the difference between plant and animal	https://youtu.be/IIQD12mf-dk		
		tissues.	https://youtu.be/7COBSz7DxTw	Art Integration	
		3. To classify different types of plant and animal	https://youtu.be/09Fsj8BpH8Y	1.Students will observe structures of different plant and animal tissues	
		tissues and explain their structure,location and	https://youtu.be/Prk-T2nDtCw	through slides.	
		functions.	https://youtu.be/2iLtGXRQD2Q	2.Students will be able to draw different types of epithelial and connective	
	ASSESSMENT	Oral and written test			

SEPTEMBER	SYLLABUS- Chapters 5 and 6	MID TERM EXAMINATION			
OCTOBER					
	Ch-15 Improvement In Food Res-	1. To understand about food crops and fodder crops.	https://youtu.be/S1KGDag8ptw	1. Students will list kharif and rabi crops of different states.	
	ources	2. Differences between rabi and kharif crops		2. Students will list hybrid varieties of wheat, rice and maize.	
		3. To understand application of hybridisation for		3. Students will be able to draw different cropping patterns.	
		improving crop varieties.			
		4. Differences between manures and fertilizers.			
		5. To learn about traditional and latest irrigation			
		methods used in agriculture.			
		6. To understand different cropping patterns followed			
		i.e. mixed cropping ,inter cropping and crop rotation.			
		7. Different methods of crop protection management.			
NOVEMBER	Ch-15 Improvement In Food Resources	1. To understand about Animal Husbandry	https://youtu.be/Bc1UJZTchkc	Experiential Learning	
		2. To understand b/w milch and draught cattle.		Students will make ppt showing capture fish, mariculture and aquaculture.	
		3. Introduction of Poultry Farming		Students will collect information on Indigenous and Exotic varieties of cattle, poultry	
		Differences b/w broilers and layers.		birds and honey bees.	
		4. Management practices used in Poultry farming.			
		5. Students will learn about Fish production			
		6. Various types of fish farming will be learnt.			
	Chapter -14 Natural Resources	1. Students will be able to identify the reasons for	NCERT BOOK OF SCIENCE for		

December		existence of life on planet Earth.	class IX.		
		2. Identify biotic and abiotic components of			
		biosphere i.e. air,water and soil.			
		3. Understand the concept of biogeochemical	https://youtu.be/D0hqCz7HRC8	1. Learner will develop critical thinking through open ended questions to	
		cycles.		evaluate our role in maintaining balance in nature.	
		4.To understand the phenomena of green house		2. Students will be able to understand formation of clouds by a simple activity.	
		effect and global warming.		(bottle and smoke activity)	
		5. Students will be able to define the terms air,soil		3. Students will be able to draw different biogeochemical cycles.	
		and water pollution and list their causes and effect.			
	ASSESSMENT				
	Ch-15 is to be included in internal assesement only. No questions based on the chapter will be asked in exams.				
	Deleted chapters - Chapters -7 and 13.				

