

NEW PLANNER CLASS IX SESSION (2024 - 2025 )				
MONTH	TOPIC	LEARNING OUTCOMES	SOURCES (Link of videos)/ RESOURCES	SUGGESTIVE ACTIVITIES (to be guided by Teachers/Parents)
APRIL	THE FUN THEY HAD	Skills of enjoying life and to remain happy even in difficult times	<a href="https://www.youtube.com/watch?v=gikCXAFWwBC">https://www.youtube.com/watch?v=gikCXAFWwBC</a> Literature reader BEEHIVE	Study of visual resources at home and in the surroundings.
	THE SOUND OF MUSIC	Appreciating music and soothing sounds around us.	<a href="https://www.youtube.com/watch?v=wswljcyQJYQ">https://www.youtube.com/watch?v=wswljcyQJYQ</a> Literature reader BEEHIVE	To listen music programme on radio or T.V and write short description of the performances in
	THE ROAD NOT TAKEN (Poem)	Critical thinking ability	<a href="https://www.youtube.com/watch?v=riMcDBYV1gE">https://www.youtube.com/watch?v=riMcDBYV1gE</a> Literature reader BEEHIVE	To write any of your favourite poem of Robert Frost.
	WIND (Poem)	Ignite imignation and learn to love mother nature.	<a href="https://www.youtube.com/watch?v=zDRc4DFD3TE">https://www.youtube.com/watch?v=zDRc4DFD3TE</a> Literature reader BEEHIVE	Pictorial description of the Poem.
MAY	THE LITTLE GIRL	Importance of family and importance of Grand parents in a child's life.	<a href="http://youtu.be/ExFRw2rzWKA">http://youtu.be/ExFRw2rzWKA</a> Literature Reader	Make your family tree in your note book
	A TRULY BEAUTIFUL MIND	Development of scientific temper of student	<a href="https://www.youtube.com/watch?v=vtEym2FOSog">https://www.youtube.com/watch?v=vtEym2FOSog</a> Literature reader BEEHIVE	Write a character sketch of your favourite scientist.
	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.
	RAIN ON THE ROOF (Poem)	Learn to recognise nature's elements	<a href="https://youtu.be/ldiXpTPaiwc">https://youtu.be/ldiXpTPaiwc</a> Literature reader BEEHIVE	How can the sweet moments of life help us when they change into sweet memories?
	THE LOST CHILD	Value for family relationship	<a href="https://www.youtube.com/watch?v=gvXCNu-4Owl">https://www.youtube.com/watch?v=gvXCNu-4Owl</a> Supplementary Reader Moments	Sketching from nature and surroundings.
	THE ADVENTURES OF TOTO	Critical thinking ability and love for animals.	<a href="https://www.youtube.com/watch?v=cxlVTf5Iz0">https://www.youtube.com/watch?v=cxlVTf5Iz0</a> Supplementary Reader Moments	Write an article on Amazon Fire, mention how many millions of animal species (endangered)
	ISWARAN THE STORYTELLER	Conceptual understanding	<a href="https://youtu.be/GfDazlXyG4k">https://youtu.be/GfDazlXyG4k</a>	Choose your favourite character from the story and write what you learnt from that character.
	GAP FILLING	Development of knowledge of Tenses	<a href="https://youtu.be/ttLDpC2EITU">https://youtu.be/ttLDpC2EITU</a> B.B.C	B.B.C Grammar Module
	THE LAKE ISLE OF INNISFREE	Interplay between nature and civilization.	<a href="https://youtu.be/eqjfl216wQ4?si=gAE81aRrkUkuqWVj">https://youtu.be/eqjfl216wQ4?si=gAE81aRrkUkuqWVj</a>	Write an article on Beauties Of Nature.
	DESCRIPTIVE PARAGRAPH	Enhance writing skills and learn how to organise thoughts.	<a href="https://youtu.be/PXLCDUUiARK">https://youtu.be/PXLCDUUiARK</a> B.B.C	B.B.C Writing Module
	READING COMPREHENSION TYPE 1	Improve reading skills and ability to understand things in a better way.	<a href="https://youtu.be/xrEq-1UuiOo">https://youtu.be/xrEq-1UuiOo</a> B.B.C	B.B.C Reading Module
JUNE	<b>VACATIONS</b>			
JULY	MY CHILDHOOD	Learn the values of generosity, kindness and communal harmony.	<a href="https://www.youtube.com/watch?v=URB3ylODK_I">https://www.youtube.com/watch?v=URB3ylODK_I</a> Literature reader BEEHIVE	Describe any sweet memory of your child hood.
	A LEGEND OF THE NORTHLAND (Poem)	Importance of sharing and caring..	<a href="https://youtu.be/jNjhns27Z1k">https://youtu.be/jNjhns27Z1k</a> Literature reader BEEHIVE	Write on any legend in your scrapbook which your parents or grand parents narrated to you.
	NO MEN ARE FOREIGN (Poem)	To uplift their understanding in terms of unity in diversity around the world.	<a href="https://youtu.be/UqJrvTwp1_o">https://youtu.be/UqJrvTwp1_o</a> Literature reader BEEHIVE	Share your views on the ways of living happy and peaceful life.
	STORY WRITING	Learn the art of framing stories	<a href="https://youtu.be/od2Oxm5tZ8c">https://youtu.be/od2Oxm5tZ8c</a> B.B.C Module story writing	B.B.C Module story writing.
	READING COMPREHENSION TYPE 2	Improves reading skill.	<a href="https://youtu.be/xrEq-1UuiOo">https://youtu.be/xrEq-1UuiOo</a> B.B.C Module 1	B.B.C Reading Module
AUGUST	IN THE KINGDOM OF FOOLS.	To be worldly wise	<a href="http://youtu.be/XBBmazlHePg">http://youtu.be/XBBmazlHePg</a> Supplementary Reader Moments	Make a PPT on the lesson ' In the kingdom of fools '. (maximum 10 number of slides)
	THE HAPPY PRINCE	To learn importance of virtues in life.	<a href="https://www.youtube.com/watch?v=4GfSNLdTFrg">https://www.youtube.com/watch?v=4GfSNLdTFrg</a> Supplementary Reader Moments	How are scarifice, love and compassion punished and rewarded in the story.
	EDITING	To find mistakes in a given sentence or passage.	<a href="https://youtu.be/_Ep9xpAY6Xg">https://youtu.be/_Ep9xpAY6Xg</a> B.B.C	B.B.C Grammar Module
	OMISSION	Ability to construct meaningful sentences.	<a href="https://youtu.be/_Ep9xpAY6Xg">https://youtu.be/_Ep9xpAY6Xg</a> B.B.C	B.B.C Worksheet Grammar Module.
	DIARY ENTRY	Ability to convey meaning better.	<a href="https://youtu.be/IsM6VqpsiOw">https://youtu.be/IsM6VqpsiOw</a> B.B.C	B.B.C Writing Module
SEPTEMBER	<b>HALF YEARLY EXAMS</b>			

<b>OCTOBER</b>	REACH FOR THE TOP	Determination plays an important role in one's life.	<a href="http://youtu.be/BXC4rbcVupU">http://youtu.be/BXC4rbcVupU</a>	Make a PPT on the biography of mountaineer Santosh Yadav
			Beehive	
	ON KILLING A TREE (Poem)	Awareness about nature and learn how to protect it.	<a href="https://youtu.be/BuLKueqWTl8">https://youtu.be/BuLKueqWTl8</a>	Make a poster on 'SAVE TREES'
			Beehive	
	A SLUMBER DID MY SPIRIT SEAL.(Poem)	To enable students to connect poem with real life.	Beehive	Paraphrase the first poem of William Wordsworth.
	A HOUSE IS NOT A HOME	Development of reading and writing skill.	<a href="http://youtu.be/Kte4w4TbjF4">http://youtu.be/Kte4w4TbjF4</a>	Draw a beautiful picture of your house.
		MOMENTS		
REPORTED SPEECH	Organization of thoughts	<a href="https://youtu.be/GK5ul5uXlro">https://youtu.be/GK5ul5uXlro</a>	B.B.C Grammar Module	
		B.B.C		
STORY WRITING	Learn the art of framing stories	<a href="https://youtu.be/od2Oxm5tZ8c">https://youtu.be/od2Oxm5tZ8c</a>	B.B.C Module story writing.	
		B.B.C Module story writing		
<b>NOVEMBER</b>	THE LAST LEAF	We should never lose hope in life.	<a href="https://youtu.be/R_u63Cq4b9A?si=dpUYvZnk-LLvg01">https://youtu.be/R_u63Cq4b9A?si=dpUYvZnk-LLvg01</a>	Social Emotional Learning Discussion Topics
<b>DECEMBER</b>	COMPREHENSION PASSAGE TYPE 1 & 2	Improves reading skill.	<a href="https://youtu.be/xrEq-1UujOo">https://youtu.be/xrEq-1UujOo</a>	B.B.C Reading Module
			B.B.C Module 1	
	IF I WERE YOU	To understand examples of wit and irony.	<a href="http://youtu.be/RCLaSP_P4oM">http://youtu.be/RCLaSP_P4oM</a>	Extempore
			Beehive	
	THE BEGGER	Reading skills.	<a href="http://youtu.be/QJlkzVk6BAw">http://youtu.be/QJlkzVk6BAw</a>	Share your views on the topic 'Begging is a curse'.
	REVISION		MOMENTS	
<b>JANUARY</b>	REVISION			
<b>FEBRUARY</b>	EXAM			

**LESSONS ONLY FOR INTERNAL ASSESSMENT**

MONTH	TOPIC	LEARNING OUTCOMES	SOURCES (Link of videos)/ RESOURCES	SUGGESTIVE ACTIVITIES (to be done)
	THE LAKE ISLE OF INNISFREE (Poem)	Lern to use literary devices.	Literature Reader	Paraphrase the poem with different ending.
	THE DUCK AND THE KANGAROO (Poem)	Love for birds and animals.	Beehive	Make a collage on the poetic devices used in the poem.
	A SLUMBER DID MY SPIRIT SEAL. (Poem)	To enable students to connect poem with real life.	Beehive	Paraphrase the first poem of William Wordsworth.
	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.
	THE STORY TELLER	Conceptual understanding		Suggested reading ' Pret in the House ' by Ruskin Bond.
			Supplementary reader	
	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	
	THE ACCIDENTAL TOURIST	Four language skills.	Beehive	Narrate the examples of people forgetting important things and getting into trouble.

**SUBJECT : HINDI**

निर्धारित पुस्तकें- शिक्षित, 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
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मास	पाठ्यक्रम	सुझावात्मक गतिविधियाँ/कला एकीकरण	संसाधन/ फ्लिपड/मिश्रित अधिगम	सीखने के संभावित प्रतिफल
अप्रैल	दो बैलों की कथा	नैतिक मूल्यों पर आधारित कहानी लिखें   स्वतंत्रता आन्दोलन से जोड़ते हुए एक लघु नाटिका तैयार करें	आई सी आई (ICI) का प्रयोग करते हुए क्यूआर कोड (QR Code) की सहायता ले सकते हैं। <a href="https://www.youtube.com/watch?v=5zQP_0g9gRA">https://www.youtube.com/watch?v=5zQP_0g9gRA</a>	स्वतंत्रता के लिए संघर्ष करने की प्रेरणा   नैतिक मूल्यों का ज्ञान प्राप्त होगा
	साखियाँ एवं सबद (पहला)	दोहा गायन	कबीर के दोहों की अन्य पुस्तकें <a href="https://www.youtube.com/watch?v=PtPHPPMmGu">https://www.youtube.com/watch?v=PtPHPPMmGu</a>	निर्गुण भक्ति का ज्ञान मिलना   बाहरी आडंबरों के प्रति सचेत रहने की प्रेरणा
	उपसर्ग/प्रत्यय	प्रश्नोत्तरी (उपसर्ग और प्रत्यय)	सहायक व्याकरण पुस्तकें <a href="https://www.youtube.com/watch?v=iz3g-xpUSZ4&amp;">https://www.youtube.com/watch?v=iz3g-xpUSZ4&amp;</a>	शब्द ज्ञान में बढ़ोतरी
			प्रत्यय: <a href="https://www.youtube.com/watch?v=YV6nAx6-Mhw&amp;feature=youtu.be">https://www.youtube.com/watch?v=YV6nAx6-Mhw&amp;feature=youtu.be</a>	
	संवाद	सामाजिक विषयों से संबंधित संवादों का स्वयं अध्ययन	प्रत्यय: <a href="https://www.youtube.com/watch?v=YV6nAx6-Mhw&amp;feature=youtu.be">https://www.youtube.com/watch?v=YV6nAx6-Mhw&amp;feature=youtu.be</a>	वार्तालाप करने की कला का ज्ञान
	अनुच्छेद	सामाजिक बुराइयों 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	लहासा की ओर	किसी पर्यटन स्थल की वीडियो बनाना	<a href="https://www.youtube.com/watch?v=UxBYO35RDVc">https://www.youtube.com/watch?v=UxBYO35RDVc</a> श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	तिब्बत की संस्कृति का ज्ञान
	वाख	संगीत कला	<a href="https://www.youtube.com/watch?v=3Hw4-wWDD">https://www.youtube.com/watch?v=3Hw4-wWDD</a>	सहज-साधना का ज्ञान   प्राकृतिक आपदा से निपटने के उपायों की जानकारी
	इस जल प्रलय में	बाढ़ से होने वाले नुकसान की सूची तैयार करना	श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	
	समास	प्रश्नोत्तरी	सहायक व्याकरण पुस्तकें	शब्द भंडार में बढ़ोतरी
	अपठित पद्यांश	प्रश्न हल करें	सहायक व्याकरण पुस्तकें	समस्या समाधान के कौशल का विकास
जून	पत्र सूचना-लेखन	लिखित अभ्यास लिखित अभ्यास	Literature reader BEEHIVE <a href="https://youtu.be/CfwcizZ81">https://youtu.be/CfwcizZ81</a>	पत्र-प्रारूप की जानकारी और लेखन-कला का विकास लेखन-कला का विकास
जुलाई	उपभोक्तावाद की संस्कृति सर्वेये	विज्ञापन बनाना   कृष्ण का चित्र बनाए	उपभोग करने वाली वस्तुएँ <a href="https://www.youtube.com/watch?v=iS1GIGzOg&amp;">https://www.youtube.com/watch?v=iS1GIGzOg&amp;</a> श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	वस्तुओं का सीमित उपभोग करना   सगुण भक्ति का ज्ञान होना
	वाक्य-भेद ई-मेल	प्रश्नोत्तरी लिखित अभ्यास	सहायक व्याकरण पुस्तकें इंटरनेट व व्याकरण	वाक्य ज्ञान में बढ़ोतरी   लेखन -कला का विकास
	सॉवले सपनों की याद	वृत्तचित्र तैयार करें	श्यामपट्ट, चॉक, ई-सामग्री,सहायक पुस्तक	ग्लोबल वार्मिंग की जानकारी मिलेगी   पक्षियों से प्रेम करने की प्रेरणा मिलेगी

अगस्त	कैदी ओर कोकिला	स्वतंत्रता सेनानियों को जेल में दी जाने वाली यंत्रणाओं पर पीपीटी	<a href="https://www.youtube.com/watch?v=-RDc5dYpUfy8">https://www.youtube.com/watch?v=-RDc5dYpUfy8</a>	स्वतंत्रता सेनानियों के बलिदान की जानकारी मिलना
	मेरे संग की औरतें	भारत की प्रसिद्ध औरतों का कॉलाज बनाएँ	श्यामपट्ट, चॉक, ई-सामग्री, सहायक पुस्तक <a href="https://www.youtube.com/watch?v=Jc7uFdli_n8&amp;">https://www.youtube.com/watch?v=Jc7uFdli_n8&amp;</a>	देश भक्ति की भावना का विकास औरतों को लीक से हटकर अपना जीवन जीने की प्रेरणा देना
	अलंकार	काव्यगत विशेषताओं को ध्यान में रखते हुए एक कविता की रचना करें	<a href="https://www.youtube.com/watch?v=UduOnWdVa1">https://www.youtube.com/watch?v=UduOnWdVa1</a>	काव्यगत विशेषताओं की जानकारी
	लघु कथा	अपने आस-पास की घटनाओं को मद्देनजर रखते हुए कोई कहानी लिखें	<a href="https://www.youtube.com/watch?v=RXBUsvsXyNY&amp;feature=youtu.be">https://www.youtube.com/watch?v=RXBUsvsXyNY&amp;feature=youtu.be</a> सहायक अतिरिक्त पुस्तक	रचनात्मक लेखन-कला का विकास
सितंबर	अर्द्धवार्षिक परीक्षा			
अक्टूबर	प्रेमचंद के फटे जूते	प्रेमचंद का चित्र बनाएँ	<a href="https://www.youtube.com/watch?v=UcSp10QVmbI">https://www.youtube.com/watch?v=UcSp10QVmbI</a>	दिखावे की संस्कृति का ज्ञान मिलना
	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	<a href="https://youtu.be/vSIPdjFdQuM">https://youtu.be/vSIPdjFdQuM</a>	ग्रामीण और शहरी जीवन में अंतर स्पष्ट करना
	मेघ आए	गाँव के रीति-रिवाजों की सूची तैयार करें	श्यामपट्ट, चॉक, ई-सामग्री, सहायक पुस्तक <a href="https://youtu.be/y2P5whRxp7g">https://youtu.be/y2P5whRxp7g</a>	प्राकृतिक सुन्दरता की आभास होगा
	बच्चे काम पर जा रहे हैं	काम करते बच्चों के चित्र एकत्र करें	<a href="https://www.youtube.com/watch?v=eMgyfrDRUW8">https://www.youtube.com/watch?v=eMgyfrDRUW8</a> श्यामपट्ट, चॉक, ई-सामग्री, सहायक पुस्तक	लोगों की स्वार्थपूर्ण भावना व आर्थिक विवशता का ज्ञान मिलना
नवंबर	रीढ़ की हड्डी	एक लघु नाटिका तैयार करें	<a href="https://youtu.be/0atiTI_L5mE">https://youtu.be/0atiTI_L5mE</a>	लड़की के विवाह में आने वाली समस्याओं की जानकारी मिलेगी
दिसंबर	पुनरावृत्ति			
जनवरी	पुनरावृत्ति			
फरवरी	वार्षिक परीक्षा			

**SUBJECT : PUNJABI**

ਮਹੀਨਾ	ਪਾਠਕ੍ਰਮ	ਕੋਸ਼ਲ	ਸਹਾਇਕ ਸਮੱਗਰੀ	ਕਲਾ ਏਕੀਕਰਨ	ਗਿਆਨ ਪ੍ਰਾਪਤੀ	ਕਿਰਿਆਤਮਕ ਗਤੀਵਿਧੀਆਂ
ਅਪ੍ਰੈਲ	ਕਹਾਣੀ - ਜਨਮ ਦਿਨ ਕਵਿਤਾ - ਸਮਾਂ ਮਹਾਵਰੇ (ਓ), ਸ਼ਬਦ ਸੰਘੀ	ਨਵੇਂ ਸ਼ਬਦਾਂ ਦੀ ਜਾਣਕਾਰੀ, ਉਚਾਰਨ ਕਲਾ, ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ	ਸਮੇਂ ਨਾਲ ਸੰਬੰਧਤ ਚਾਰਟ <a href="https://www.youtube.com/watch?v=cMR7om-alg">https://www.youtube.com/watch?v=cMR7om-alg</a>	ਨਾਟਕੀ ਰੂਪ, ਸੰਗੀਤ ਕਲਾ		ਕੰਮ ਨੂੰ ਸਮੇਂ ਸਿਰ ਨੂੰ ਮੁਕਾਉਣਾ, ਸਮੇਂ ਦੀ ਸੰਭਾਲ ਕਰਨਾ, ਦੂਸਰਿਆਂ ਦਾ ਹੱਕ ਨਾ ਮਾਰਨਾ ਅਤੇ ਆਪਣੇ ਹੱਕ ਦੀ ਰਾਖੀ ਕਰਨਾ
	ਅਣਡਿੱਠਾ ਪੈਰਾ, ਲੇਖ, ਪੱਤਰ		<a href="https://youtu.be/G8S1nXfv5Ts">https://youtu.be/G8S1nXfv5Ts</a>			
	ਵਾਰਤਕ - ਵਹਿਮੀ ਤਾਇਆ ਕਵਿਤਾ - ਵਿਸ਼ਾਖੀ ਦਾ ਮੇਲਾ ਵਿਦੇਸ਼ੀ ਸ਼ਬਦ ਅਣਡਿੱਠੀ ਕਾਵਿ-ਟਕੜੀ ਮੁਹਾਵਰੇ (ਅ), ਲੇਖ, ਪੱਤਰ		ਦੇਸੀ ਮਹੀਨਿਆਂ ਦਾ ਚਾਰਟ <a href="https://www.youtube.com/watch?v=RV-Jc2lvMx0">https://www.youtube.com/watch?v=RV-Jc2lvMx0</a> <a href="https://youtu.be/oK8BWmiNCOQ">https://youtu.be/oK8BWmiNCOQ</a>			
ਜੂਨ			<b>ਗਰਮੀ ਦੀਆਂ ਛੁੱਟੀਆਂ</b>			
ਜੁਲਾਈ	ਕਵਿਤਾ - ਮੈ ਪੰਜਾਬੀ ਪੰਜਾਬ ਦਾ ਰਹਿਣ ਵਾਲਾ	ਪੁਨੀ ਗਿਆਨ, ਭਾਸ਼ਾ ਬੋਧ, ਨਾਟਕੀ ਅਭਿਨੇ	ਮਾਂ ਬੋਲੀ ਨਾਲ ਸੰਬੰਧਤ ਹੋਰ ਕਵਿਤਾਵਾਂ ਪ੍ਰੋ: ਪੂਰਨ ਸਿੰਘ, ਧਨੀ ਰਾਮ ਚਾੜ੍ਹਕ ਦੀਆਂ ਰਚਨਾਵਾਂ	ਨਾਟਕ ਕਲਾ, ਚਿੱਤਰਕਾਰੀ, ਫੋਟੋਗ੍ਰਾਫੀ ਕਲਾ		ਮਾਂ ਬੋਲੀ ਨਾਲ ਸੰਬੰਧਤ ਸਲੋਗਨ, ਟੱਪਾਂ ਜਾਂ ਬੋਲੀ ਆਦਿ ਲਿਖੋ। ਆਪਣੇ ਬਚਪਨ ਦੀ ਕੋਈ ਅਡੁੱਲ ਯਾਦ ਲਿਖੋ। ਅਜਿਹੀ ਘਟਨਾ ਨਾਟਕ ਦੇ ਰੂਪ ਵਿੱਚ ਬਿਆਨ ਕਰੋ ਜਿਸ ਵਿੱਚ ਪੁਲਿਸ ਨੇ ਕਾਮਯਾਬੀ ਹਾਸਲ ਕੀਤੀ ਹੋਵੇ।
	ਵਾਰਤਕ - ਮੁੜ ਵੱਖਿਆ ਮਿੱਠ		ਲੇਖ ਨਾਲ ਸੰਬੰਧਤ ਮੇਰਾ ਪਾਕਿਸਤਾਨੀ ਸਫਰਨਾਮਾ ਵਿਸਥਾਰ ਨਾਲ ਸਮਝਾਉਣਾ।			
	ਇਕਾਗੀ - ਮੌਨਧਾਰੀ, ਲਿੰਗ ਬਦਲੇ		<a href="https://www.youtube.com/watch?v=3Rq151ejPAE">https://www.youtube.com/watch?v=3Rq151ejPAE</a>			
	ਲੇਖ, ਪੱਤਰ, ਚਿੱਤਰ ਵਰਣਨ		<a href="https://youtu.be/a7O6sMYAMno">https://youtu.be/a7O6sMYAMno</a>			
ਅਗਸਤ	ਵਾਰਤਕ - ਖਸੀਆਂ ਆਪੇ ਨਹੀਂ ਆਉਂਦੀਆਂ ਕਹਾਣੀ - ਸਾਝੀ ਕੰਧ ਕਿੱਚਿਆ	ਉਚਾਰਨ ਕਲਾ, ਸ਼ਬਦ-ਭੰਡਾਰ ਵਿੱਚ ਵਾਧਾ, ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ	ਦੂਸਰਿਆਂ ਦੀਆਂ ਗੱਲਾਂ ਵਿੱਚ ਆ ਕੇ ਹੋਏ ਨੁਕਸਾਨ ਦਾ ਤਜਰਬਾ ਸਾਂਝਾ ਕਰੋ।	ਅਸਲੀ ਜੀਵਨ ਕਲਾ, ਨਾਟਕ ਕਲਾ		ਨਫਰਤ ਭੁਲਾ ਕੇ ਮੁਆਫ਼ ਕਰਨ ਵਿੱਚ ਅਸਲੀ ਖੁਸ਼ੀ ਹੈ ਸਾਨੂੰ ਦੂਸਰਿਆਂ ਦੀਆਂ ਗੱਲਾਂ ਵਿੱਚ ਨਹੀਂ ਆਉਣਾ ਚਾਹੀਦਾ, ਨਵੇਂ ਨੁਕਸਾਨ ਦਾ ਵਿਚਾਰ ਪਹਿਲਾਂ ਹੀ ਕਰਨਾ ਜ਼ਰੂਰੀ ਹੁੰਦਾ ਹੈ।
	ਮੁਹਾਵਰੇ (ਏ), ਲੇਖ, ਪੱਤਰ, ਅਣਡਿੱਠੀ ਕਾਵਿ -ਟੁਕੜੀ		<a href="https://www.youtube.com/watch?v=ki4HUSWvH+A">https://www.youtube.com/watch?v=ki4HUSWvH+A</a>			
			<a href="https://youtu.be/WtTLs5OJfpQ">https://youtu.be/WtTLs5OJfpQ</a>			
ਸਤੰਬਰ			<b>ਛਿਮਾਰੀ ਪ੍ਰੀਖਿਆ</b>			
ਅਕਤੂਬਰ	ਕਵਿਤਾ - ਨਵੀ ਪੁਰਾਣੀ ਤਹਿਜੀਬ ਕਹਾਣੀ- ਬੱਸ ਕੰਡਕਟਰ	ਭਾਸ਼ਾ ਦਾ ਗਿਆਨ, ਸ਼ਬਦ-ਭੰਡਾਰ ਵਿੱਚ ਵਾਧਾ, ਉਚਾਰਨ ਕਲਾ	ਨਵੀਂ ਅਤੇ ਪੁਰਾਣੀ ਤਹਿਜੀਬ ਬਾਰੇ ਪੰਜ-ਪੰਜ ਵਾਕ ਸਾਂਝੇ ਕੀਤੇ ਜਾਣਗੇ।	ਚਿੱਤਰ ਕਲਾ, ਸੰਗੀਤ ਕਲਾ		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 ਦੁਨੀਆਂ ਵਿੱਚ ਕਾਇਮ ਹੈ।
	ਮੁਹਾਵਰੇ (ਸ)		<a href="https://youtu.be/t8a_melF_n8">https://youtu.be/t8a_melF_n8</a>			
	ਲੇਖ, ਪੱਤਰ, ਵਿਸ਼ਲੇਸ਼ਣ		<a href="https://www.youtube.com/watch?v=JtrFqQYw8-Y">https://www.youtube.com/watch?v=JtrFqQYw8-Y</a>			
ਨਵੰਬਰ	ਇਕਾਗੀ - ਸਿਰਜਣਾ	ਗਿਆਨ, ਭਾਸ਼ਾ ਬੋਧ, ਨਾਟਕੀ ਅਭਿਨੇ	ਪੁਨੀ	ਨਾਟਕੀ ਰੂਪ, ਅਸਲੀ ਜੀਵਨ ਕਲਾ, ਸੰਗੀਤ ਕਲਾ		ਭਰੂਣ ਹੱਤਿਆ ਪਾਪ ਹੈ, ਲੜਕਾ ਅਤੇ ਲੜਕੀ ਇੱਕ ਸਮਾਨ ਹਨ। ਬੱਚੇ ਮਾਤਾ-ਪਿਤਾ ਦੀਆਂ ਅਦਰਾਂ ਹੁੰਦੀਆਂ ਹਨ। ਉਨ੍ਹਾਂ ਦਾ ਵਿਛੋੜਾ ਅਸਹਿ ਹੁੰਦਾ ਹੈ। ਇਸ ਲਈ ਮਾਮਿਆਂ ਦੀ ਕਦਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ। ਮਾਂ ਦੀ ਅਗਿਆਨ ਦਾ ਪਾਲਣ ਕਰਨ ਵਾਲੇ ਬੱਚੇ ਹਮੇਸ਼ਾ ਨੈਕ ਇਨਸਾਨ ਬਣਦੇ ਹਨ ਅਤੇ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਸਫਲ ਹੁੰਦੇ ਹਨ।
	ਵਾਰਤਕ - ਬੇਬੇ ਜੀ					
	ਕਵਿਤਾ - ਮਾਤਾ ਗੁਜਰੀ					
	ਮੁਹਾਵਰੇ (ਹ)					
	ਲੇਖ, ਪੱਤਰ, ਚਿੱਤਰ ਵਰਣਨ					
ਦਸੰਬਰ			<b>ਦੁਹਰਾਈ</b>			
ਜਨਵਰੀ			<b>ਦੁਹਰਾਈ</b>			
ਫਰਵਰੀ			<b>ਦੁਹਰਾਈ ਅਤੇ ਸਲਾਨਾ ਪ੍ਰੀਖਿਆ</b>			

**SUBJECT: MATHEMATICS**

Month	Unit	Topic and Sub topic	Learning Outcome	Resource	Activities	Multiple Assessment, Art Integrated and Experiential Learning activities
<b>APRIL</b>	UNIT – 1 Number System	1. Review of representation of natural numbers, integers, rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers. 2. Examples of non-recurring/non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as $\sqrt{2}$ , $\sqrt{2}$ and their representation on the number line. 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. 3. Rationalization with precise meaning of the real numbers 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.	Students will learn representation of real numbers on number line and rationalization of real numbers.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>	Represent square root spiral on number line. <a href="https://www.youtube.com/watch?v=U55Lzou4n0">https://www.youtube.com/watch?v=U55Lzou4n0</a>	WORKING MODEL ON REAL NUMBERS
	UNIT – 2 Polynomial	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. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Factors and multiples. 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. Recall of algebraic expressions and identities. 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.	Students will learn basic terms of polynomials. Students will learn factorization of polynomials using algebraic identities.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>	Geometric representation of algebraic expression of $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ Link will be provided. Mind map Activity	CROSS WORD PUZZLE (Multiple Assessment)
<b>MAY</b>	UNIT – 3 Co-ordinate Geometry	The cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations.	Students will learn plotting of points in the plane and graph of linear equation in two variables.		To find the hidden figure by plotting and joining the various points with given co-ordinates in a plane.	CASE STUDY BASED QUESTIONS (REAL LIFE SITUATIONS )
	UNIT - 4 Linear equations in two variables	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.			To obtain a linear equation and draw a graph which represents the linear equation. <a href="https://www.youtube.com/watch?v=nN9XCLVFgQE">https://www.youtube.com/watch?v=nN9XCLVFgQE</a>	
<b>June</b>		Summer Vacation				
<b>July</b>	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 : axiom 1. Given two distinct points ,there exists one and only one line through them. Theorem2.(Prove) Two distinct lines cannot have more than one point in common.	Students will learn use of postulates and axioms.			
	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 $180^\circ$ and the converse 2. (Prove) If two lines intersect, vertically opposite angles are equal. 3.(Motivate) Lines which are parallel to given line are parallel to each other.	Understand the basic terms like angles different types of angles, pair of angles and their properties. Also understand linear pair axiom and vertically opposite angles are equal.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>	Verify that the sum of angles in a triangle is $180^\circ$ . <a href="https://www.youtube.com/watch?v=6s1C13uuhk0">https://www.youtube.com/watch?v=6s1C13uuhk0</a>	PPT BASED ON LINES AND ANGLES (Art Integrated Activity)
	UNIT -10 HERON'S FORMULA	Area of triangle using Heron's Formula(without proof)	Students will learn use of Heron's Formula.			
<b>August</b>	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. (Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of other triangle. (ASA Congruence) 3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of other triangle. (SSS Congruence) 4.(Motivate ) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal to hypotenuse and a side of the other triangle. (RHS Congruence) 5. (Prove) The angles opposite to equal sides of a triangle are equal. 6. (Motivate ) The sides opposite to equal angles of a triangle are equal.	Students will learn different types of congruence rules.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>	Crossword Puzzle	Explanation of congruency rules using different cut outs made of coloured sheets. (Art Integrated Activity)
<b>SEPTEMBER</b>		Revision and Half Yearly Examination				
<b>OCTOBER</b>	UNIT-8 QUADRILATERALS	1.( Prove ) The diagonal divides a parallelogram into two congruent triangles. 2. (Motivate) In a parallelogram opposite sides are equal and conversely. 3. (Motivate) In a parallelogram opposite angles are equal and conversely. 4. (Motivate) A quadrilateral is a parallelogram if a pair of opposite sides is parallel and equal. 5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely. 6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and equal to half of it.	Students will learn different types of quadrilaterals and use of mid point theorem.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>		To make windchime to show different types of quadrilaterals and its properties. (Art Integrated Activity)
	UNIT -12 STATISTICS	Bar graphs ,histograms (with varying base lengths) and polygons.	Students will learn Bar graphs and Histogram.			To make frequency polygon to compare the performance of two players in any IPL series. (Experiential Learning)
<b>NOVEMBER</b>	UNIT -9 CIRCLES	1.( Prove) Equal chords of a circle subtend equal angles at the centre and ( motivate) its converse. 2. (Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely. 3. (Motivate) Equal chords of a circle are equidistant from the centre and conversely. 4. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. 5. (Motivate ) Angles in the same segment of a circle are equal. 6. (Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle. 7. (Motivate) The sum of either pair of the opposite angles of a cyclic quadrilateral is $180^\circ$ and its converse.	Students will learn different	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>	To verify angle subtended by an arc of the circle at the centre of the circle is double the angle subtended by same arc in the remaining part of the	Chart depicting rangoli designs (Experiential Learning)
	UNIT - 11 SURFACE AREAS AND VOLUMES	Surface areas and volumes of spheres (including hemispheres) and right circular cones.	Students will learn to find area and volume of sphere, hemisphere and right circular cone.	National Digital Library of India(NDLI) Link: <a href="http://ndli.itkqp.ac.in">http://ndli.itkqp.ac.in</a> Diksha App Link to CBSE website: <a href="http://www.cbseacademic.nic.in">www.cbseacademic.nic.in</a>		Toy making and logical games based on measurement. (Experiential Learning and Art Integrated Activity )
<b>DECEMBER and January</b>		Revision of whole syllabus				
<b>February</b>	Final Term Examination					

SUBJECT: SOCIAL SCIENCE				
MONTH	TOPIC	LEARNING OUTCOMES	SOURCES/RESOURCE	SUGGESTIVE ACTIVITIES
APRIL	L-1 INDIA- SIZE & LOCATION	To understand the major landforms features and underlying geological structure.	Text Book NCERT, Assignments, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Size and location <a href="http://www.excellup.com">http://www.excellup.com</a>	On Political Map of India 1. Identification and Location of States and UTs with capital. 2. Standard Meridian <b>Collect and share information about States and UTs in terms of languages, Food, Dress, Culture, Tradition etc.</b>
	L-2 PHYSICAL FEATURES OF INDIA	Association with various rocks and minerals as well as nature of soil types.	Text Book NCERT, Assignments PPT <a href="http://www.slideshare.net">www.slideshare.net</a>  Revision notes, textbook solution	On Political Map of India locate and identify 1. Mountain and Hill ranges. 2. Peaks 3. Plateaus, Deserts and Ghats Model making to show the different physical features
	L- 1 THE STORY OF VILLAGE PALAMPUR	Familiarizing the children to the population related concepts and sensitization of the learner, Appreciation of govt. initiative to alleviate poverty	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Factors of production, farming and non-farming activities	Digital survey of a village including :-location total area of the village, facilities available here like: education, market, medical, electricity supply, communication ,nearest city and town to the village
MAY	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 <a href="http://www.slideshare.net">www.slideshare.net</a>	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 regarding the engagement of people in different economic activities –Primary, Secondary and Tertiary
POLITICAL SCIENCE	L- 1 WHAT IS DEMOCRACY, WHY DEMOCRACY?	To understand the term democracy and its functions. To identify the salient features of democracy The learner can distinguish between	Text Book NCERT, PPT, <a href="http://www.slideshare.net">www.slideshare.net</a> Meaning of democracy, Arguments against and in	1. Students can locate important democratic countries on the world map. 2. Prepare a chart on Fundamental rights and duties
JUNE	Project on Disaster Management	a. Create awareness in them about different disasters, their consequences and management b. prepare them in advance to face such situations	1.Content accuracy, originality and analysis :2m 2. Presentation and creativity:2m 3. Viva Voce :1m	The Project Report should be handwritten.
JULY POLITICAL SCIENCE	L- 2 CONSTITUTIONAL DESIGN	The learner explains how the Indian constitution was made. Understand its foundational values . Compares our constitution with other	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Need of constitution, Making of Indian	1. Prepare a chart on important leader who were the makers of the constitution of India. 2. Prepare a Quiz on the constitution of India. 3. Write a short biography of Dr. B.R. Ambedkar and share it with peers through e-mail.
	L- 3 ELECTORAL POLITICS	The learner Understands the importance of election in democracy Locate places on the map of India indicating lok sabha constituencies.	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Political competition, Democratic election,	<b>Role play on topic why elections should be held in India.</b> Prepare a write up on women parliamentarians in India.
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, <a href="http://www.slideshare.net">www.slideshare.net</a> Indicators of poverty, vulnerability, poverty line	Enlist the programme initiative by the govt. to alleviate poverty like 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)
AUGUST HISTORY	L – 1 FRENCH REVOLUTION	Locate France on map of Europe Identifies various factors that led to the outbreak of revolution. Categories the rigid power structure in 18 <sup>th</sup>	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Causes of the French Revolution, Declaration of	<b>Role play to show the reason of revolution in France.</b> Making the chart to highlight specific attributes which differentiate 'Revolutions' from movements by taking several examples from both categories.
	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 <a href="http://www.slideshare.net">www.slideshare.net</a> From Tsar to USSR	Students can make the timeline of events of different revolutions. Discussion regarding comparative study of Russian revolution and French revolution

ECONOMICS	L - 4 FOOD SECURITY IN INDIA	1. Exposing the child to an economic issue which is basic necessity of life. 2. Appreciate and critically look at the role of govt. in ensuring food supply.	NCERT BOOK, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Estimated calorie requirement <a href="https://health.gov.in">https://health.gov.in</a>	1. Prepare a chart on estimated calorie requirement as per day, by age, sex, and physical Activity level. 2. Collect information about MSP of RICE, WHEAT, COTTON since 2010.
<b>REVISION</b>				
<b>REVISION &amp; HALF YEARLY EXAMINATION</b>				
SEPTEMBER OCTOBER	L – 3 NAZISM AND RISE OF HITLER	1. Students will be aware about critical significance of Nazism in shaping the politics of modern world. Familiarize students with the speeches and	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> Hitler's Rise to power	Movies and videos: HITLER: The Rise of Evil The Great dictator 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 <a href="http://www.slideshare.net">www.slideshare.net</a>	Students will prepare a report on the life nomadic tribes in different parts of India  Mock drill (Earthquake)
GEOGRAPHY	L - 3 DRAINAGE	1. To understand the river system of India 2. Aware of the role of rivers in the evolution of human society.	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a> River System <a href="http://www.jagranjosh.com">http://www.jagranjosh.com</a>	1. Locate and label the rivers on political map of India. 2. Prepare a chart on work of a river.
	L - 4 CLIMATE	1. Enable the students about the importance and unifying role of monsoons. 2. Students will be able to identify the various factors influencing the climate and explain the	Text Book NCERT PPT <a href="http://www.slideshare.net">www.slideshare.net</a>	1. Activity based on food habits, clothing, festivals etc. associated with several seasons and different regions will be done. 2. Locate and label the areas receiving rainfall less than 20 cm. and over 400 cm. POEM RECITATION ON CLIMATE
NOVEMBER POLITICAL	L – 4 WORKING OF INSTITUTIONS	1. Understand the parliamentary system of executive accountability to the legislature. 2. Distinguish between nominal and real executive authorities and functions .	Text Book NCERT PPT <a href="http://www.slideshare.in">www.slideshare.in</a> cabinet ministers along with their portfolios <a href="http://www.india.gov.in">www.india.gov.in</a>	1. Role play of political and permanent executives. 2. A chart based on comparative study on Lok sabha and Rajya sabha.
	L – 5 DEMOCRATIC RIGHTS	1. Develop citizen's awareness of their rights. Introduction to and appreciation of fundamental rights. 2. Recognition of the ways in which these	Text Book NCERT PPT <a href="http://www.slideshare.net">www.slideshare.net</a> fundamental rights <a href="http://knowindia.gov.in">http://knowindia.gov.in</a>	Prepare a flow chart listing fundamental rights granted to the citizens of India.
GEOGRAPHY	L – 5 NATURAL VEGETATION AND WILDLIFE	1. The students will be aware about the nature of diverse flora and fauna as well as their distribution. 2. Develop concern about the need to protect	Text Book NCERT PPT <a href="http://www.slideshare.in">www.slideshare.in</a> Types of forest, importance and conservation of	1. Prepare a chart to show the variety of Indian forests found in different regions. 2. Enlist the medicinal plants found in your neighborhood.
	L – 5 POPULATION	1. To analyze the uneven nature of population distribution and show concern about large size of our population. 2. To understand the various occupations of	Text Book NCERT, PPT <a href="http://www.slideshare.net">www.slideshare.net</a>  Census of India	Conduct a class census by preparing a questionnaire on performance , health status and education and family members.
DECEMBER HISTORY	L – 5 PASTORALISTS IN THE MODERN WORLD	Students will be aware about pastoralist and pastoralism in the modern world, with the formation of modern states, marking of boundaries, contraction of pastures and	Text Book NCERT Pastoralism in India: A scoping Study <a href="https://assets.publishing.service.gov.uk">https://assets.publishing.service.gov.uk</a>	1. Locate and label the different pastoral communities as per their regions. 2. Prepare a chart about acts passed by the Britishers to check movements of pastoral
<b>REVISION</b>				



**SUBJECT: BIOLOGY**

MONTH	TOPIC	LEARNING OUTCOME (Action Verb,object and condition based.)	SOURCES/RESOURCES (Flip blended learning)	SUGGESTIVE ACTIVITIES (Art integration/subject enrichment/experiential learning)
APRIL	Chapter - 5 The Fundamental	1. Students will be able to define and explain the	NCERT BOOK OF SCIENCE for class IX	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.	<a href="https://youtu.be/tZW1bjDHnTY">https://youtu.be/tZW1bjDHnTY</a>	different types of osmosis with respect to concentration of the cell.
		3. Identify various types of cells and correlate their shapes and functions.		3. To prepare a temporary mount of onion peel.
		4. Explore and identify the discovery of dead and living cells.		
	<b>ASSESSMENT</b>	<b>Weekly written test,Oral test</b>		
MAY	Chapter - 5 The Fundamental	1. Students will be able to differentiate between	NCERT BOOK OF SCIENCE for Class IX	
	Unit of Life	prokaryotic and eukaryotic cell.		<b>Subject Enrichment</b>
		2. Identification of various organelles	<a href="https://youtu.be/N2vp98dy35k">https://youtu.be/N2vp98dy35k</a>	1. Identify the structure and location of different organelles with the help of diagrams.
		3. Students will learn functions of various organelles	<a href="https://youtu.be/37Zqbg168vs">https://youtu.be/37Zqbg168vs</a>	
		location and function of ER,Golgi Apparatus, lysosomes,Mitochondria,Plastids .	<a href="https://youtu.be/hME6z4G_39s">https://youtu.be/hME6z4G_39s</a>	2. Students will be able to exhibit creativity and accuracy in diagrams.
		<b>Quiz,Weekly written test,Periodic test-1 syllabus Fundamental Unit of Life(Upto prokaryotic cell and eukaryotic cell)</b>	<a href="https://youtu.be/lBj0Y1Uh0M8">https://youtu.be/lBj0Y1Uh0M8</a>	3. To prepare a temporary mount of cheek cell and compare types of cell organelles.
	<b>ASSESSMENT</b>			4. Students will be able to differentiate between plant cell and animal cell.
JUNE	<b>SUMMER BREAK</b>			
JULY	Chapter - 5 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 mitosis and meiosis.	<a href="https://youtu.be/Fj79A-84Zyo">https://youtu.be/Fj79A-84Zyo</a>	
	<b>ASSESSMENT</b>	<b>MODEL MAKING</b>		
AUGUST	Chapter -6 Tissues	1. State the importance of tissues and different types of tissues.	NCERT BOOK OF SCIENCE for class IX.	
		2. Explain the difference between plant and animal tissues.	<a href="https://youtu.be/IIQD12mf-dk">https://youtu.be/IIQD12mf-dk</a> <a href="https://youtu.be/7COBSz7Dx1w">https://youtu.be/7COBSz7Dx1w</a>	
		3. To classify different types of plant and animal tissues and explain their structure,location and functions.	<a href="https://youtu.be/09Fsj8BpH8Y">https://youtu.be/09Fsj8BpH8Y</a> <a href="https://youtu.be/Prk-T2nDtCw">https://youtu.be/Prk-T2nDtCw</a>	<b>Subject Enrichment</b> 1.Students will observe structures of different plant and animal tissues through slides.
		1.types of tissues.	<a href="https://youtu.be/2iLtGXRQD2Q">https://youtu.be/2iLtGXRQD2Q</a> class IX.	2.Students will be able to draw different types of epithelial and connective

		2. Explain the difference between plant and animal tissues.	<a href="https://youtu.be/IIQD12mf-dk">https://youtu.be/IIQD12mf-dk</a> <a href="https://youtu.be/7COBSz7DxTw">https://youtu.be/7COBSz7DxTw</a>	<b>Art Integration</b>
		3. To classify different types of plant and animal tissues and explain their structure, location and functions.	<a href="https://youtu.be/09Fsj8BpH8Y">https://youtu.be/09Fsj8BpH8Y</a> <a href="https://youtu.be/Prk-T2nDtCw">https://youtu.be/Prk-T2nDtCw</a>  <a href="https://youtu.be/2iLtGXRQD2Q">https://youtu.be/2iLtGXRQD2Q</a>	1. Students will observe structures of different plant and animal tissues through slides.  2. Students will be able to draw different types of epithelial and connective
	<b>ASSESSMENT</b>	Oral and written test		
<b>SEPTEMBER</b>	<b>SYLLABUS- Chapters 5 and 6</b>	<b>MID TERM EXAMINATION</b>		
<b>OCTOBER</b>	<b>Ch-15 Improvement In Food Resources</b>	1. To understand about food crops and fodder crops	<a href="https://youtu.be/S1KGDag8ptw">https://youtu.be/S1KGDag8ptw</a>	1. Students will list kharif and rabi crops of different states.
		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 improving crop varieties.		3. Students will be able to draw different cropping patterns.
		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. <b>mixed cropping, inter cropping and crop rotation.</b>		
		7. Different methods of crop protection management.		
<b>NOVEMBER</b>	<b>Ch-15 Improvement In Food Resources</b>	1. To understand about Animal Husbandry	<a href="https://youtu.be/Bc1UJZTchkc">https://youtu.be/Bc1UJZTchkc</a>	<b>Experiential Learning</b>
		2. To understand b/w milch and draught cattle.		Students will make ppt showing capture fishing, mariculture and aqua culture.
		3. Introduction of Poultry Farming Differences b/w broilers and layers.		Students will collect information on Indigenous and Exotic varieties of cattle, poultry 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.		
<b>NOVEMBER</b>	<b>Chapter -14 Natural Resources</b>	1. Students will be able to identify the reasons for existence of life on planet Earth.	NCERT BOOK OF SCIENCE for class IX.	
		2. Identify biotic and abiotic components of biosphere i.e. air, water and soil.		
		3. Understand the concept of biogeochemical cycles.	<a href="https://youtu.be/D0hgCz7HRC8">https://youtu.be/D0hgCz7HRC8</a>	1. Learner will develop critical thinking through open ended questions to evaluate our role in maintaining balance in nature.
		4. To understand the phenomena of green house effect and global warming.		2. Students will be able to understand formation of clouds by a simple activity. (bottle and smoke activity)
		5. Students will be able to define the terms air, soil and water pollution and list their causes and effect.		3. Students will be able to draw different biogeochemical cycles.

	<b>ASSESSMENT</b>	Worksheet		
	Ch-15 is to be included in internal assessment only. No questions based on the chapter will be asked in exams.			
	Deleted chapters - Chapters -7 and 13.			
<b>DECEMBER</b>		<b>PERIODIC TEST II</b>		
<b>January</b>		Natural Resources		
		Revision		

**SUBJECT: PHYSICS**

MONTH	TOPIC		SOURCE/RESOURCES (flip/blended learning)	SUGGESTED ACTIVITIES(Art integration/ subject enrichment /experiential learning)
<b>April</b>	CHAPTER 8:-MOTION	<b>The learners will be able</b>	<b>NCERT/STATE TEXT BOOK</b>	
	Introduction Motion along a straight line	* To understand motion along a straight line	<a href="https://youtu.be/F-WGuMkT79g">https://youtu.be/F-WGuMkT79g</a>	<b>Experiential learning - CHOREOGRAPHY</b> (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.	<a href="https://youtu.be/oDI49HI2LB4">https://youtu.be/oDI49HI2LB4</a> <a href="https://youtu.be/eUXv-z8JcEs">https://youtu.be/eUXv-z8JcEs</a> <a href="https://youtu.be/LezCQhYkC0c">https://youtu.be/LezCQhYkC0c</a>	*Find the magnitude of the displacement between your home and School
	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.	<a href="https://youtu.be/5H4M7PXtaek">https://youtu.be/5H4M7PXtaek</a>	<b>Subject enrichment</b> -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	<a href="https://youtu.be/BFmx43TtRa8">https://youtu.be/BFmx43TtRa8</a>	
	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	<a href="https://youtu.be/wQFkzSq55JU">https://youtu.be/wQFkzSq55JU</a>	*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	<a href="https://youtu.be/OIW0jtYErHM">https://youtu.be/OIW0jtYErHM</a>	<b>Subject Enrichment</b> *Draw different types of s-t graph as listed in Assignment
<b>ASSESMENT</b>	<b>Weekly written test, Oral test</b>			*Analyse Activity 8.10 (NCERT) Plot the distance-time graph for their motions on the same scale and interpret
		and v-t graph.		
<b>MAY</b>	Graphical representation of motion by v - t graph Calculation of acceleration and distance from Numericals based on graphs	*To develop numerical solving skills	<a href="https://youtu.be/5Q3UBGr0UwQ">https://youtu.be/5Q3UBGr0UwQ</a>	
	Equations of motion by graphical method-		<a href="https://youtu.be/qO4pHr8hWVQ">https://youtu.be/qO4pHr8hWVQ</a>	<b>Experiential Learning</b> -*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	<a href="https://youtu.be/kbDgz-7dY9M">https://youtu.be/kbDgz-7dY9M</a> <a href="https://youtu.be/T4RS84Xl1fU">https://youtu.be/T4RS84Xl1fU</a>	<b>Art integration</b> -Model making - Prepare Spirograph
<b>ASSESMENT</b>	Quiz, Weekly written test,Periodic test-1 syllabus-Motion(full)			
<b>JUNE</b>	SUMMER BREAK			
<b>JULY</b>	<b>CHAPTER 9- FORCE AND LAW OF MOTION</b> 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	<a href="https://youtu.be/cwLMejalz-E">https://youtu.be/cwLMejalz-E</a>	<b>Experiential learning</b> -*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	<a href="https://youtu.be/6nE0OcuBxbk">https://youtu.be/6nE0OcuBxbk</a>	<b>Subject Enrichment</b> * 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	<a href="https://youtu.be/FCUN6HEmnz8">https://youtu.be/FCUN6HEmnz8</a>	* Find out few activities involving momentum in your daily life
		*Interpret and apply the knowledge of terms in solving numericals	<a href="https://youtu.be/5fcVDF4DNXE">https://youtu.be/5fcVDF4DNXE</a>	<b>Art integration-</b> Viscosity printing
	Newton's third law of motion , momentum.		<a href="https://youtu.be/LG2cIwspwMU">https://youtu.be/LG2cIwspwMU</a>	<b>Subject enrichment-</b> prepare Newton's laws of motion foldable wheel.
ASSESSMENT	Model Making			
<b>AUGUST</b>	<b>CHAPTER 10- GRAVITATION</b> Introduction Newton's Law of gravitation Importance Numericals	* To understand the importance of newton's law of gravitation. And universal constant	<a href="https://youtu.be/sYaeBZIGc4I">https://youtu.be/sYaeBZIGc4I</a>	<b>Art integration activity -</b> Gravity painting
		* understand the phenomenon related to gravitation	<a href="https://youtu.be/iFTPcXzC-z8">https://youtu.be/iFTPcXzC-z8</a>	
ASSESSMENT	oral and written test		<a href="https://youtu.be/mKqyvOkdX9g">https://youtu.be/mKqyvOkdX9g</a>	
	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	<a href="https://youtu.be/OiNqgT_82a4">https://youtu.be/OiNqgT_82a4</a>	<b>Subject enrichment -</b> Perform any two experiments related to concept of floatation and record its video
	<b>GRAVITATION</b> Thrust, Pressure Applications Up thrust ,Buoyancy, Density, Relative density. Why do objects float and sink? Archimedes Principle	*To understand the applications of thrust and pressure. understand the concept of floatation.	<a href="https://youtu.be/UKl33k-gQ0k">https://youtu.be/UKl33k-gQ0k</a>	<b>Experiential learning-</b> Establishing the relation between the loss in weight of a solid when fully immersed in a) Tap water b) Strongly salty water with the weight of water
ASSESSMENT				
<b>SEPTEMBER</b>	<b>SYLLABUS</b> - Ch-Motion ,force and law of motion Gravitation(excluding floatation)	<b>MID-TERM EXAMINATION</b>		
<b>OCTOBER</b>	<b>CHAPTER-11 WORK , ENERGY AND POWER</b> Energy and its forms Kinetic energy Derive the expression for KE Numericals on KE Potential energy Derive the expression for PE	*To Identify and list different types of energy and relation between mass and velocity through KE	<a href="https://youtu.be/lrio28ciHDE">https://youtu.be/lrio28ciHDE</a>	* 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
		*The learner are able to derive expression of KE and PE	<a href="https://youtu.be/pSZV77U12RQ">https://youtu.be/pSZV77U12RQ</a>	
	Numericals on PE Transformation of energy Law of conservation of energy Conversion of PE to KE during a free fall	* To develop problem solving technique and understand the phenomenon of transformation of energy	<a href="https://youtu.be/N6TKBpQUzrM">https://youtu.be/N6TKBpQUzrM</a>	<b>Subject enrichment-</b> Calculate electricity bill of your home for the month
		*To comprehend various examples showing transformation of energy during free fall	<a href="https://youtu.be/uEzCP-FMn8o">https://youtu.be/uEzCP-FMn8o</a>	
	Power, Numericals related to power			
ASSESSMENT	Weekly written and oral test	and project		
<b>NOVEMBER</b>				

	<b>CHAPTER 12 SOUND</b> Introduction Production of sound Propagation of sound needs medium to travel . Types of waves – Longitudinal and transverse waves characteristics of wave – wavelength, speed , amplitude and frequency Numericals Speed of sound in different media Reflection of sound Numericals based on echo	Able understand how the sound is produced and propagates  *Able understand different types of waves and their characteristics  *Able apply concept of multiple reflection of sound in real life situations  *understand the concept of ultrasound list the applications of ultrasound	<a href="https://youtu.be/32q5x-81H5Q">https://youtu.be/32q5x-81H5Q</a>	<b>EXPERIENTIAL LEARNING-HOW SOUND WAVE PROPOGATE</b> <a href="https://www.youtube.com/watch?v=TOLsFQI0N98">https://www.youtube.com/watch?v=TOLsFQI0N98</a>
	Reverberation ,Uses of multiple reflection of sound, Range of Hearing Infrasonud 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	<a href="https://youtu.be/Na5RntekuQQ">https://youtu.be/Na5RntekuQQ</a> <a href="https://youtu.be/gacuSimlov8">https://youtu.be/gacuSimlov8</a>	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
			<a href="https://youtu.be/LR-AYApQbNE">https://youtu.be/LR-AYApQbNE</a>	<b>Experiential learning-</b> Using digital app,show difference between echo and reverberation .
ASSESSMENT	synopsis and worksheet			
DECEMBER	PERIODIC TEST-II	<b>SYLLABUS- FLOATATION AND WORK AND ENERGY</b>		

**SUBJECT: CHEMISTRY**

Month	Topic	Learning outcomes	Sources/resources	Suggestive activities
April	<b>Chapter 1 :- Matter in our surrounding</b>		NCERT/State Textbook	
	<b>introduction</b>			
	<b>Introduction Matter: Define : examples,characterstics of matter.</b>	<b>Define matter with examples from day today life and state the composition of Matter</b>	<b>Link 1</b> <a href="https://youtu.be/doDQ0Mo9Kdg">https://youtu.be/doDQ0Mo9Kdg</a>	Identify various types of matter around you and classify them on the basis of their properties.
		<b>Analyze the characteristics of the particles of matter applicable in day today life activities</b>	<b>Link</b> <a href="https://youtu.be/c9MsAHPPcvc">https://youtu.be/c9MsAHPPcvc</a>	
	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,	<b>Link 3</b> <a href="https://youtu.be/ENVKQVIDNLY">https://youtu.be/ENVKQVIDNLY</a>	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.	<b>Link 4.</b> <a href="https://youtu.be/PXXh0tjFlh0">https://youtu.be/PXXh0tjFlh0</a>	Keep the naphthalene 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	<b>Link 5.</b> <a href="https://youtu.be/YHb8NlrdWUk">https://youtu.be/YHb8NlrdWUk</a>	Heat the water and see the change in temperature of it.
May	<b>CHAPTER 2:-IS MATTER AROUND US PURE</b>			
	<b>INTRODUCTION:</b>	The learners would be able	LINK 1 <a href="https://www.youtube.com/watch?v=pWZlICXw3Ng">https://www.youtube.com/watch?v=pWZlICXw3Ng</a>	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.	<a href="https://www.youtube.com/watch?v=Nv_JkEmuVJc&amp;t=2s">https://www.youtube.com/watch?v=Nv_JkEmuVJc&amp;t=2s</a>	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.	<a href="https://www.youtube.com/watch?v=msScIkLW4Lk">https://www.youtube.com/watch?v=msScIkLW4Lk</a>	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.
	Differences between them and examples of both.	To understand that mixtures are very important in our daily life.	LINK 4 <a href="https://www.youtube.com/watch?v=dW1Vn6cbTR E">https://www.youtube.com/watch?v=dW1Vn6cbTR E</a>	
			LINK 5	
	Solutions:The components of Solution:- Solute and Solvent	*To understand the different types of solutions.	<a href="https://www.youtube.com/watch?v=SaNZAyqOeT 0">https://www.youtube.com/watch?v=SaNZAyqOeT 0</a>	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.	<a href="https://www.youtube.com/watch?v=urcxDUJloyl">https://www.youtube.com/watch?v=urcxDUJloyl</a>	
			LINK 7	
	Types of solution: Saturated Solution, Unsaturated Solution and Supersaturated Solution	To understand the significance of saturated solution,unsaturated solution and supersaturated solution.	<a href="https://www.youtube.com/channel/UCTB_Mn10B 2ZL3RUnPteVKqA">https://www.youtube.com/channel/UCTB_Mn10B 2ZL3RUnPteVKqA</a>	Make a saturated solution , unsaturated solution and
			LINK 8	

			<a href="https://www.youtube.com/watch?v=qcpiDBya_Nw">https://www.youtube.com/watch?v=qcpiDBya_Nw</a>	observe the changes in between them.
<b>June</b>	<b>SUMMER HOLIDAYS</b>			
<b>July</b>				
			LINK 1	
	True solution: Definition, Examples of True Solution, Properties of true of solution	To understand the meaning of true solution	<a href="https://www.youtube.com/watch?v=4dA2-WcS4">https://www.youtube.com/watch?v=4dA2-WcS4</a>	
		To realize the importance of true solutions in our day to day life.	LINK 2	Make an activity based short video to prepare a true solution
			<a href="https://www.youtube.com/watch?v=w4BU_gg-R9g">https://www.youtube.com/watch?v=w4BU_gg-R9g</a>	
	Suspension solution Definitions with examples, Properties of Suspension solution	*To understand the properties of suspension solution	LINK 3	prepare suspension solution
		*Explain Tyndall effect with examples from day to day life.	<a href="https://www.youtube.com/watch?v=LkUs4qZ9BRo&amp;t=36s">https://www.youtube.com/watch?v=LkUs4qZ9BRo&amp;t=36s</a>	and observe its properties.
		*Apply their knowledge in daily life.	LINK 4	
			<a href="https://www.youtube.com/watch?v=8Xcpq6e8pBY&amp;t=6s">https://www.youtube.com/watch?v=8Xcpq6e8pBY&amp;t=6s</a>	
			LINK 5	
	Colloidal solutions : Define with examples.	*Identify the various types of colloidal solutions	<a href="https://www.youtube.com/watch?v=JB_9ZbUoEFE">https://www.youtube.com/watch?v=JB_9ZbUoEFE</a>	compare the examples of various types of colloids.
	Properties of colloidal solutions.		LINK 6	
			<a href="https://www.youtube.com/watch?v=w4BU_gg-r9Q">https://www.youtube.com/watch?v=w4BU_gg-r9Q</a>	
			LINK 7	
	Difference between true solution,colloidal and suspension solution.	To compare the properties of true solution, suspension and colloidal solution.	<a href="https://www.youtube.com/watch?v=a4GF5bcMuMs">https://www.youtube.com/watch?v=a4GF5bcMuMs</a>	Prepare all the three types of solutions and classify them on the basis of their properties.
			LINK 8	
	Mixtures,compounds,elements and types of elements		<a href="https://www.youtube.com/watch?v=XEAilM2zuvC">https://www.youtube.com/watch?v=XEAilM2zuvC</a>	
	<b>CHAPTER 3 ATOMS AND MOLECULES</b>			
<b>SEPTEMBER</b>				
	laws of chemical combination,law of constant prportion	*students will able to differentiate between two laws	LINK 1 <a href="https://youtu.be/pEIQ93tQ-yo">https://youtu.be/pEIQ93tQ-yo</a>	Observe mass of reactant and mass of product is equal during chemical reaction.
<b>OCTOBER</b>			LINK 2	
	Atom, atomic size,modern symbols	*students will able to understand formation of atom. *critical thinking	<a href="https://youtu.be/l1VXM_b2KFY">https://youtu.be/l1VXM_b2KFY</a>	
			LINK 3	
	Atomic massMolecule,molecule of elements and compound	*students will able to understand difference between atom and molecule. *students will understand how to make chemical formula of copound	<a href="https://youtu.be/KuyB-445gQM">https://youtu.be/KuyB-445gQM</a>	draw structure of compounds by using balls and iron stick
			LINK 4,5	
	Ion,Chemical formula, molecular mass,formula unit mass	* students will enable to calculate M.M and F.U.M	<a href="https://youtu.be/FclVPVlt2L4">https://youtu.be/FclVPVlt2L4</a> <a href="https://youtu.be/tmDmBqCrhNY">https://youtu.be/tmDmBqCrhNY</a>	
<b>NOVEMBER</b>				
	<b>CHAPTER 4 STRUCTURE OF ATOM</b>		LINK 1	



	introduction atomic structure, thomson's model of atom	* students enable to draw different structure of atom	<a href="https://youtu.be/ILwnACfo7hY">https://youtu.be/ILwnACfo7hY</a>	Compare thomson model with water melon
	Rutherford's model of an atom, drawbacks, Bohr's model of atom, neutron	* students will able to differentiate different theories	LINK 2,3 <a href="https://youtu.be/1EdTw4I6LOU">https://youtu.be/1EdTw4I6LOU</a> <a href="https://youtu.be/fm2C0ovz-3M">https://youtu.be/fm2C0ovz-3M</a>	
			LINK 4	
	how are electron distributed in different orbits(shells), valency, atomic number and mass number	* students will find valency from electronic configuration.	<a href="https://youtu.be/eMY_tRR1Hls">https://youtu.be/eMY_tRR1Hls</a>	
		*able to learn atomic mass and atomic number		
			LINK 5	
	isotopes and isobars	*to enable the students to learn isobars and isotopes	<a href="https://youtu.be/qgJW1g0nCxQ">https://youtu.be/qgJW1g0nCxQ</a>	uses of isobars in daily life
<b>REVISION</b>				

## LIST OF SCIENCE EXPERIMENTS

<p><b>1)</b> Preparation of: Unit-I            a) a true solution of common salt, sugar and alum            b) a suspension of soil, chalk powder and fine sand in water.            c) a colloidal solution of starch in water and egg albumin /milk in water and distinguish between</p>	<p><b>3)</b> Perform the following reactions and classify them as physical or chemical changes: Unit-I            a) Iron with copper sulphate solution in water            b) Burning of magnesium ribbon in air            c) Zinc with dilute sulphuric acid            Heating of copper sulphate crystals            Sodium sulphate with barium chloride in the form of their solutions in water.</p>	<p>and a measuring cylinder. Unit-III            9) Establishing the relation between the loss in weight of a solid when fully immersed in Unit-III            a) Tap water            b) Strongly salty water with the weight of water displaced it by</p>
<p>these on the basis of :            1)transparency            2) Filtration criterion            3)stability</p>	<p>their solutions in water.            4) Preparation of stained temporary mounts of            (a) onion peel,            (b) human cheek cells &amp; to record</p>	<p><i>two different solids.</i> 10) Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring). Unit-III</p>
<p><b>2)</b> Preparation of Unit-I            a) A mixture            b) A compound            using iron filings and sulphur powder and distinguishing between these on the basis of:</p>	<p>observations and draw their labeled diagrams. Unit-II            5) Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams. Unit-II</p>	<p>11) Verification of the law of conservation of mass in a chemical reaction.</p>
<p>(i) appearance, i.e., homogeneity and heterogeneity            (ii) behaviour towards a magnet(iii) behaviour towards carbon disulphide as a solvent            (iv) effect of heat</p>	<p>6) Determination of the melting point of ice and the boiling point of water. Unit-I            7) Verification of the Laws of reflection            8) Determination of the density of solid (denser than water) by using a spring balance</p>	