



**Delhi Public School, Hapur**  
**ANNUAL PEDAGOGICAL PLANNER CLASS 10 2022-23**  
**Class – X**

SUBJECT - **HINDI – COURSE ‘B’**

**CLASS – 10**

MONTH	UNIT/TOPIC	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	WORKING DAYS
March	बड़े भाई साहब  कबीर की साखी  पद बंध	हिंदी के साहित्यकारों के बारेमेंजानकारी एकत्र करना, बड़ेभाई से मिलीशिक्षा कोअनुच्छेदद्वारालिखना।  कबीर की सखियों का संग्रहकरना, कबीर की भाषापरअनुच्छेदलिखनारहीम वबिहारी के दोहेलिखना  पदबंधों(संज्ञा, सर्वनाम आदि)	मनुष्य के स्वभाव एवंव्यवहार की जानकारी नैतिकमूल्यों की ओरप्रेरितकरना, व्यंग्य लेखन की विशेषताएँ समझाना, पाठमेंवर्णितमानवतावादीविचारधाराकोअपनाने की प्रेरणादेना, कर्तव्योंकोअपने जीवन मेंअपनाने की कोशिशकरना नैतिकमूल्यों की ओरप्रेरितकरना, ईश्वरभक्ति की भावनाजागृतकरना, दोहेलिखने की योग्यता का विकासकरना, दोहो के भावकोअपनेदैनिक जीवन के व्यवहार के संदर्भमेंजोड़कर देखना, विभिन्नपदों का ज्ञानकरना	12
April	मीरा के पद  ततारामामीरोंकथा  अनुच्छेदलेखन वाक्यों का रूपान्तरण	मीरा के पदों का संग्रहकरकेकक्षा में सस्वर उनका वाचन करना।भक्तिकालीनमिश्रितभाषा का ज्ञान प्रदान करना, कवियित्री व उनके साहित्य की जानकारीदेना देशविदेश की विभिन्नलोककथाओं का संग्रहकरकेलिखना व कक्षा में उन परपरिचर्चाकरना।  कल्पना शक्ति का विकास वाक्यों के रूपोंमेंपरिवर्तनकरना	भक्तिकालीनमिश्रितभाषा का ज्ञानप्रदानकरना, कवियित्री व उनके साहित्य की जानकारीदेना  ततारामामीरोंके आत्मबलिदान से दवीपमेंफैलीगहरीविद्वेदनाकोजड़ से उखाड़ फैंकने की जानकारीदेना, प्रेमव घृणा के बारेमेंबतानाकिप्रेमसबकाजोड़ताहैऔर घृणादूरी बढ़ातीहै। भाषाज्ञान का विकास वाक्य संश्लेषण का ज्ञानकरना	19

May	अबकहाँ दूसरे के दुख से दुखीहोनेवाले	व्याप्तकिसीसमस्यापरआधारितकोईकहानीलिखना।	परिवेश व प्रकृति के बारेमेंजानकारीदेना, जीवजंतुओं के प्रतिकरुणा, सहानुभूति, प्रेम,आदि की भावनाजागृतकरना, पर्यावरण व प्रदुषणकोरोकने के लिए विभिन्नउपायों का व्यावहारिकज्ञानदेना	20
June	हरिहरकाका  समास	किसीवृदाश्रममेंजाकरउनकासाक्षात्कारलेकर एक पीपीटीतैयारकरना।	समाज व परिवार के बारेमेंजानकारीदेना, प्राणीमात्र के प्रतिकरुणा,सहानुभूति व प्रेम की भावनाजागृतकरना, समाजमेंफैलीविसंगतिया की जानकारीदेना पदों का मेलकरनासिखाना	14
July	पर्वतप्रदेशमेंपावस  पतझड़ मेंटूटीपत्तियाँ  मुहावरे	दूसरों के लिए अपनासर्वस्वन्योछावरकरनेवालों की जानकारी एकत्र करना।  पर्वतीय स्थल की सुंदरतापर एकअनुच्छेदलिखिए।  आदर्श एवंव्यावहारिकताबारेमेंअपनेअनुभव कक्षा मेंबताकरपरिचर्चाकरना।	नश्वर शरीर के बारेमेंजानकारीदेना, सुमृत्य के फायदेबताना, 'सभीव्यक्ति एक हीईश्वर की संतानहैं' तथ्य की जानकारीदेना।सभी के साथमेलजोल से रहने के फायदेबताना। वर्षा ऋतुमेंपर्वतोंपरहोनेवालेपरिवर्तन की जानकारीदेना, पहाड़ोंपर खड़े वृक्षों की समानताअपनीमहत्वाकांक्षाओं के समानलगना आदर्श की तुलना शुद्ध सोने से व व्यावहारिकता की तुलनागिन्नी से कैसे की जातीहैगांधीजी के उदाहरणद्वारा समझाना, जापानमेंहोनेवालेमानसिकरोगों की जानकारीदेना एवंउनसेनिदान के चा नो यू के प्रयोग की जानकारीदेना। भाषामेंलोकोक्तियों का प्रयोगकरना	19
August	करचलेहमफिदा  सपनों के से दिन  सूचनालेखन	देशपर शहीदहोनेवालेसैनिकों की शौर्यगाथापरपरिचर्चा  प्राचीन एवंआधुनिकशिक्षा पद्धतिपर एक पीपीटीबनाना।  श्रवणकौशल	सैनिकों की भावनाओंतथा जीवन से परिचितकराना, कवि की देश के प्रतिआंतरिकभावनाओंकोबताना, नौजवानोंमेंदेश के प्रतिजज्बातोंकोकायम रखना। बचपन की शरारतों व प्रारंभिकशिक्षा की के बारेमेंबताना, संस्मरणलिखने की योग्यता का विकासकरना, आधुनिक एवंप्राचीनशिक्षा पद्धति के अंतर की जानकारीदेना। भाषा शक्ति का विकास	18

September	पुनरावृत्ति प्रथम सत्र परीक्षा	परीक्षा	ज्ञान का परीक्षण	22
October	कारतूस	एकांकी का कक्षा में चर्चा कराया जाएगा।	ईस्ट इंडिया कंपनी के बारे में जानकारी देना, अंग्रेजों की नींदहराम करने वाले जॉर्ज बाजसिपाही के बारे में बताना, एकांकी लिखने के लिए प्रेरित करना।	15
November	टोपी शुक्ला	बचपन में घटी किसी घटना को संस्मरण के रूप में लिखना श्रवण कौशल	परिवार में शैक्षिक महत्त्व व खुशहाल वातावरण की उपयोगिता बताना	20
December	पुनरावृत्ति: प्रथम प्री बोर्ड परीक्षा		कल्पना शक्ति का विकास	22
	पुनरावृत्ति: द्वितीय: प्री बोर्ड परीक्षा			

## संस्कृत

## कक्षा—10

मासः	पाठ्यक्रमः	व्याकरण (परिशिष्टः)	गतिविधयः	उद्देश्यः	दिवसाः
मार्च	शुचिपर्यावरणम्	चित्राधारित वर्णनम् अनुच्छेद लेखनम् वा, वाच्य परिवर्तनम् , सन्धि:—जशत्व उत्त्व	औपचारिक पत्रम्, अव्ययः पदानि, घटिकायाः समय लेखनम् आदि।	स्वस्थ जीवनाय प्रतिदिन प्राकृतिक वातावरण प्रमणीयम्। स्वास्थ्यस्य पर्यावरणस्य च महत्त्वम् अवबोधनाय।	12
अप्रैल	बुद्धिर्बलवती सदा	समासः,—तत्पुरुषः, अव्ययः पदानि, घटिकायाः समय लेखनम्	राष्ट्रीय ध्येय वाक्यानि, शाकानि नामानि चित्र सहितम्	बुद्धिर्यस्य बलंतस्य इति विषये अवबोधनाय। व्याय ामस्य महत्त्वम् अवबोधनाय। पद्य गायनम्।	19
मई	जननी तुल्यावत्सल ।	व्यंजन सन्धिः, सत्व सन्धिः	प्रश्न निर्माण, गृह वस्तुनां	धार्मिक ग्रन्थानाम् अवबोधनाय।	20

जून	चित्राधारितं वर्णनम्	प्रश्ननिर्माणम्	नामानिसचित्रम्	संवादविधेः वार्तालापम् ।	14
जुलाई	सुभाषितानि	समासः—अव्ययीभाव, द्वन्द्व, अपठितगद्य ांशः , अशुद्धि संशोधनम्	श्लोकानाम् अन्वयेन सहितं चार्टनिर्माणम् ।ममविद्यालयः,	पद्यगायनम् , जीवनेभाषायां च उपयोगः । श्लोकानां प्रयोगेण भाषायाः सौन्दर्यवर्धनम् ।	19
अगस्त	सौहार्दप्रकृतेः शोभा,	औपचारिकपत्रम्,	राष्ट्रियप्रतीकानां नामानिसचि त्रम्, द्वन्द्व, समासैः सह सारणी निर्माणम् ।	संवादविधेः वार्तालापम् , समाजे परिवारे च सौहार्दस्य भावनायाः अवबोधनाय ।	18
सितम्बर	पुनरावृत्तिः				22
अक्टूबर	विचित्रः साक्षी	अनुवादविधिः	समाचार—श्रवणं—वाचनम् भाषाक्रीडा	न्यायस्य महत्त्वम् अवबोधनाय ।	15
नवम्बर	सूक्तयः,	प्रत्ययाः—त्व, टाप्,	संस्कृतभाषायाः महत्त्वम्	प्राचीनसंस्कृतसाहित्यस्य ज्ञानम् अवबोधनाय ।	20
दिसम्बर	पुनरावृत्तिः प्रथमप्री बोर्डपरीक्षा	समासः,—तत्पुरुषः, अव्ययः पदानि, घटिकायाः	परोपकारस्य महत्त्वम् , मम उद्यानम्	छात्रेषु पठनाय नियमित्ता वर्धनाय ।	22
जनवरी	पुनरावृत्तिः द्वितीयः प्रीबोर्डपरीक्षा	व्यंजनसन्धिः, विसर्गसन्धिः । प्रश्ननिर्माणम् समासः—अव्ययीभाव, द्वन्द्व, । अपठितगद्यांशः, औपचारिकपत्रम् ।		छात्रेषु पठनाय नियमित्ता वर्धनाय ।	18

**SOCIAL SCIENCE CLASS 10**

Month	UNIT/TOPIC	LEARNING OUTCOME	METHODOLOGY/ACTIVITY	Working days
<p><b>March</b></p>	<p><b>Political Science – Lesson-I Power sharing- Case Studies of Belgium and SriLanka</b></p> <ul style="list-style-type: none"> <li>• Why power sharing isdesirable?</li> <li>• Forms of PowerSharing</li> </ul> <p><b>Geography – Lesson –I Resources and Development</b></p> <ul style="list-style-type: none"> <li>• Types ofResources</li> <li>• Development ofResources</li> <li>• Resource Planning inIndia</li> <li>• LandResources</li> <li>• LandUtilization</li> <li>• Land Use Pattern inIndia</li> <li>• Land Degradation and Conservation Measures</li> <li>• Soil as aResource</li> <li>• Classification ofSoils</li> </ul>	<p><b>Familiarize with the centrality of power sharing in a democracy.</b></p> <ul style="list-style-type: none"> <li>□ Understand the working of spatial and social power sharing mechanisms.</li> </ul> <ul style="list-style-type: none"> <li>• Understand the value of resources and the need for their judicious utilization and conservation.</li> </ul>	<p><b>Forms of power sharing</b></p> <p><a href="https://www.youtube.com/watch?v=tZr06ceO1jg">https://www.youtube.com/watch?v=tZr06ceO1jg</a></p> <p><b>Write about the future scope of the non-conventional resources in India</b></p> <p><a href="https://www.youtube.com/watch?v=UVuiniJvvBq">https://www.youtube.com/watch?v=UVuiniJvvBq</a></p>	<p><b>12 days</b></p>

<p>April</p>	<p><b>Economics- Lesson-I Development</b></p> <ul style="list-style-type: none"> <li>• What Development</li> <li>• Income and othergoals</li> <li>• NationalDevelopment</li> <li>• How to compare different countries or states?</li> <li>• Income and othercriteria</li> <li>• PublicFacilities</li> <li>• Sustainability ofdevelopment</li> </ul>	<p>Familiarize with concepts of macroeconomics.</p> <ul style="list-style-type: none"> <li>□ Understand the rationale for overall human development in our country, which includes the rise of income, improvements in health and education rather than income.</li> <li>□ Understand the importance of quality of life and sustainable development.</li> </ul>	<p>Development in context to Indian economy</p> <p><a href="https://www.youtube.com/watch?v=rYiKk_Hzd98">https://www.youtube.com/watch?v=rYiKk_Hzd98</a></p>	<p>19</p>
	<p><b>Pol. Science- Lesson- II Federalism</b></p> <ul style="list-style-type: none"> <li>• What isFederalism?</li> <li>• What make India a FederalCountry?</li> <li>• How is Federalismpractice d?</li> <li>• Decentralization inIndia</li> <li>•</li> </ul> <p><b>Economics-L-II- Sectors of the Indian Economy-</b></p> <ul style="list-style-type: none"> <li>• Sectors of EconomicActivities</li> <li>• Comparing the threesectors</li> <li>• Primary, Secondary and</li> </ul>	<p>Analyse federal provisions and institutions.</p> <ul style="list-style-type: none"> <li>□ Explain decentralization in rural and urban areas</li> </ul> <ul style="list-style-type: none"> <li>□ Identify major employment generating sectors.</li> <li>□ Reason out the government investment in different sectors of economy.</li> </ul>	<p>124<sup>th</sup> Constitutional Amendment Act</p> <p><a href="https://www.youtube.com/watch?v=YfnCDP8XISk">https://www.youtube.com/watch?v=YfnCDP8XISk</a></p> <p>Contribution of three sectors in Indian economy, A chart of economic growth in India since independence</p>	

	<ul style="list-style-type: none"> <li>• Tertiary Sectors in India</li> <li>• Division of sectors as organized and unorganized</li> <li>• Sectors in terms of ownership: Public and Private Sectors</li> </ul>			
May	<p>Geography-L-III- Water Resources</p> <p>Map Work</p>	Map Work	<p>Make a list of all Inter-state water disputes (States' name, Rivers' name, main reason)</p> <p><a href="https://www.youtube.com/watch?v=2Z5qQh8feEU">https://www.youtube.com/watch?v=2Z5qQh8feEU</a></p>	20 days
June	<p>Economics-L-III- Money and credit-</p> <ul style="list-style-type: none"> <li>• Money as a medium of exchange</li> <li>• Modern forms of money</li> <li>• Loan activities of Banks</li> <li>• Two different credit situations</li> <li>• Terms of credit</li> <li>• Formal sector credit in India</li> <li>• Self Help Groups for the Poor</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Understand money as an economic concept.</li> <li><input type="checkbox"/> Understand the role of financial institutions from the point of view of day-to-day life.</li> </ul>	<p>Power Point Presentation and Chart on Role of Reserve Bank of India as an Apex Bank</p>	

	<ul style="list-style-type: none"> <li>• The First World War, Khilafat and Non - Cooperation</li> <li>• Differing Strands within the Movement</li> <li>• Towards Civil Disobedience</li> <li>• The Sense of Collective Belonging</li> </ul>	<ul style="list-style-type: none"> <li>• Recognize the characteristics of Indian nationalism through a case study of Non-Cooperation and Civil Disobedience Movement.</li> <li>• Analyze the nature of the diverse social movements of the time.</li> <li>• Familiarize with the writings and ideals of different political groups and individuals.</li> </ul>	<p>Group Activity on- Features of Gandhian philosophy</p>	<p>14 days</p>
<p>July</p>	<p><b>Geography L-IV- Agriculture-</b></p> <ul style="list-style-type: none"> <li>• Types of farming</li> <li>• Cropping Pattern</li> <li>• Major Crops</li> <li>• Technological and Institutional Reforms</li> <li>• Impact of Globalization on Agriculture</li> </ul> <p><b>Economics- L-IV- Globalization is and the Indian Economy-</b></p> <ul style="list-style-type: none"> <li>• Production across countries</li> <li>• Interlinking production across countries</li> <li>• Foreign Trade and</li> </ul>	<ul style="list-style-type: none"> <li>□ Explain the importance of agriculture in national economy.</li> <li>□ Identify various types of farming and discuss the various farming methods; describe the spatial distribution of major crops as well as understand the relationship between rainfall regimes and cropping pattern.</li> </ul> <ul style="list-style-type: none"> <li>□ Explain the working of the Global Economic phenomenon.</li> </ul>	<p>Explain various government policies for institutional as well as technological reforms since independence.</p> <p>Make a connectivity between national economy and globalization</p>	<p>19 days</p>

	<p><b>integration of markets</b></p> <ul style="list-style-type: none"> <li>• <b>What is globalization?</b></li> <li>• <b>World Trade Organisation</b></li> <li>• <b>Impact of Globalization on India</b></li> <li>• <b>The Struggle for a fair Globalisation</b></li> </ul> <p><b>Pol. Science-L-VI- Political Parties-</b></p> <ul style="list-style-type: none"> <li>• <b>Why do we need Political Parties?</b></li> <li>• <b>How many Parties should we have?</b></li> <li>• <b>National Political Parties</b></li> <li>• <b>State Parties</b></li> <li>• <b>Challenges to Political Parties</b></li> <li>• <b>How can Parties be reformed?</b></li> </ul>	<p><b>Analyse party systems in democracies.</b></p> <p><input type="checkbox"/> <b>Introduction to major political parties, challenges faced by them and reforms in the country.</b></p>	<p><b>Role Play on Political leaders/Skit on Independence day</b></p>	
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<p><b>August</b></p>	<p><b>History-L-I- Nationalism in Europe-</b></p> <ul style="list-style-type: none"> <li>• The French Revolution and the Idea of the Nation</li> <li>• The Making of Nationalism in Europe</li> <li>• The Age of Revolutions: 1830-1848</li> <li>• The Making of Germany and Italy</li> <li>• Visualizing the Nation</li> <li>• Nationalism and Imperialism</li> </ul> <p><b>Economics- L-V- Consumer Rights</b></p> <p><b>Geography-Water Resources</b></p>	<ul style="list-style-type: none"> <li>• Enable the learners to identify and comprehend the forms in which nationalism developed along with the formation of nation states in Europe in the post-1830 period.</li> <li>• Establish the relationship and bring out the difference between European nationalism and anti-colonial nationalisms.</li> </ul> <p>Understand the way the idea of nationalism emerged and led to the formation of nation states in Europe and elsewhere</p> <p>Gets familiarized with the rights and duties as a consumer; and legal measures available to protect from being exploited in markets.</p>	<ul style="list-style-type: none"> <li>• Familiarize with pictures, cartoons, extracts from propaganda literature and newspaper debates on important events and issues in the past.</li> </ul> <p><b>Project File</b></p> <p><b>Map Work</b></p>	<p><b>18 days</b></p>
<p><b>September</b></p>	<p><b>First Term Examination</b></p>			<p><b>22 days</b></p>
<p><b>October</b></p>	<p><b>Geography- L-VI- Manufacturing Industries</b></p>	<p>Bring out the importance of industries in the national</p>	<p><b>INTEGRATED ART ACTIVITY- To make Broucher on any one</b></p>	<p><b>15 days</b></p>

	<ul style="list-style-type: none"> <li>• Importance of manufacturing</li> <li>• Contribution of Industry to National Economy</li> <li>• Industrial Location</li> <li>• Classification of Industries</li> <li>• Spatial distribution</li> <li>• Industrial pollution and environmental degradation</li> </ul> <p><b>Geography-L-VII- Lifelines of National Economy.</b></p> <ul style="list-style-type: none"> <li>• Transport – Roadways, Railways, Pipelines, Waterways, Airways</li> <li>• Communication</li> <li>• International Trade <ul style="list-style-type: none"> <li>• Tourism as a Trade</li> </ul> </li> </ul> <p><b>Pol. Science- L-VI-</b></p>	<p>economy as well as understand the regional disparities which resulted due to concentration of industries in some areas.</p> <p><input type="checkbox"/> Explain the importance of transport and communication in the ever-shrinking world.</p> <p><input type="checkbox"/> Understand the role of trade and tourism in the economic development of a country.</p> <p>Evaluate the functioning of democracies in comparison to alternative forms of governments.</p> <p><input type="checkbox"/> Understand the causes for</p>	<p>state Arunachal Pradesh or Meghalaya</p> <p><b>Guidelines -</b></p> <ul style="list-style-type: none"> <li># Pictorial presentation should be hand made.</li> <li># Map should be used to show location .</li> <li># Include following information -</li> </ul> <ul style="list-style-type: none"> <li>Famous pilgrimage</li> <li>Famous hill stations</li> <li>Famous Cuisine</li> <li>Dress style of people</li> <li>Main occupations</li> <li>Main hotels / Resorts</li> <li>Bus / train / Airways route</li> <li>Location using map</li> </ul> <p>Debate on-</p> <p><b>Role of Communication and Transportation in the national economy-</b></p> <p>Updating with the newspapers and google search</p>	
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<b>November</b>	<b>Outcomes of Democracy-</b> <ul style="list-style-type: none"> <li>• How do we assess democracy's outcomes?</li> <li>• Accountable, responsive and legitimate government</li> <li>• Economic growth and development</li> <li>• Reduction of inequality and poverty</li> <li>• Accommodation of social diversity</li> <li>• Dignity and freedom of the citizens</li> </ul>	<b>continuation of democracy in India.</b> <input type="checkbox"/> <b>Distinguish between sources of strengths and weaknesses of Indian democracy</b>	<b>PM Narendra Modi's speech on 73<sup>rd</sup> Independence Day</b>	<b>20 days</b>
<b>December</b>	<b>Revision</b>			<b>22 days</b>
<b>December</b>	<b>PRE BOARD I</b>			<b>18 days</b>
<b>January</b>	<b>PRE BOARD I</b>			<b>18 days</b>

MONTH	UNIT/TOPIC	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	WORKING DAYS
March	❖ <b>Web applications</b>	<ul style="list-style-type: none"> <li>• Online Presentation on web applications. Include type of network.</li> <li>• Make an online account to write the blog on it</li> <li>• Prepare a powerpoint presentation on web application.</li> </ul>	<ul style="list-style-type: none"> <li>• Students will get better understanding of network devices. Easily recognized the device and their uses in the network.</li> </ul>	12
April	❖ <b>Database development</b>	<ul style="list-style-type: none"> <li>• Create database online, table in mysql.</li> <li>• Applying different type of queries over the data like: - insert/select/modify/delete etc.</li> <li>• Online Demonstration of DDL/DML commands in mysql using Bank table.</li> <li>• Providing datatype and its size through database table queries in mysql</li> </ul>	<ul style="list-style-type: none"> <li>• Students now create their database, table and perform different type of task in a table.</li> <li>• Student connects multiple tables to remove inconsistency in data.</li> </ul>	19
May	❖ <b>Word processing</b>	<ul style="list-style-type: none"> <li>• Online Designing of various types of letters in word document</li> <li>• Various types of cards: id, invitation, b`dayetc formats in word document</li> <li>• Letter pad document designing using header-footer option</li> <li>• Report card designing using mail merge feature</li> <li>• Images as background &amp; use of clip-art in document Activity to perform text wrapping, inserting object with grouping and ungrouping.</li> </ul>	<ul style="list-style-type: none"> <li>• Students would aware about knowledge of various ms-word options practically.</li> <li>• Using mail-merge, they can design different productive reports practically.</li> <li>• Enhancement in creativity &amp; productivity is achieved by students by various in word document.</li> <li>• Practical knowledge is grasped by students to design various word document formats.</li> </ul>	20
June	❖ <b>Digital presentation</b>	<ul style="list-style-type: none"> <li>• Online Powerpoint which includes an audio clip and video clip will play at run time.</li> <li>• Insert slide having some objects with the grouping technique and ungroup if required.</li> <li>• Digital presentation on “any topic”Using various options like timing, apply animation &amp; transition etc.</li> <li>• Slide show with speaker notes practically Play audio/ video clip in ppt</li> </ul>	<ul style="list-style-type: none"> <li>• Students would able to design digital presentation on any topic.</li> <li>• Demonstration of any theoretical concept is learnt by students in ppt form practically.</li> </ul>	14
July	❖ <b>Spreadsheet</b>	<ul style="list-style-type: none"> <li>• Design an online sheet which include formulas of all types, conditional</li> </ul>	<ul style="list-style-type: none"> <li>• Students will learn to apply filters over data, categories data on the</li> </ul>	

		<p>formatting and contains filters.</p> <ul style="list-style-type: none"> <li>• Designing of format of calculative sheet(bill calc.) Practically.</li> <li>• Demonstration of GoalSeek function to calculate forecasting outcomes online</li> <li>• Design macro to perform financial task in excel</li> <li>• Create Scenarios to calculate different calculation on a single sheet .</li> </ul>	<p>basis of values.</p> <ul style="list-style-type: none"> <li>• Students will learn to design formula using functions for many calculations practically.</li> <li>• Learners would be able to design balance sheet of any transaction.</li> <li>• Graphical presentation is learnt by students to show calculative changes periodically.</li> </ul>	19
August	❖ <b>Employability Skill</b>	<ul style="list-style-type: none"> <li>• Necessities of different types of online skills for professional environment</li> <li>• Categorize different skill for culture of life</li> </ul> <p>• <b>Integrated Art based Activities using IT:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Movie clip on Technological support in Covid-19 duration in India</b></li> <li>OR</li> <li>➤ <b>Visual Picture Making on “Support of IT in various ongoing Govt. Projects in Uttar Pradesh”</b></li> </ul> <p>(It's a group activity of 5-6 students group)</p>	<ul style="list-style-type: none"> <li>• Student will learn practically online/offline service &amp; its environment.</li> <li>• A learning environment is provided through Integrated Art based activities by which they will enhance their Professional skills beyond the syllabus.</li> </ul>	18
September	REVISION & EXAM			
October	❖ <b>DataBase , Word Processing Practical approach (Advance)</b>	<ul style="list-style-type: none"> <li>• Through online demonstration test/Assignment or worksheets</li> </ul>		22
November	❖ <b>Digital Presentation , Spreadsheet Practical approach(Advance)</b>	<ul style="list-style-type: none"> <li>• Through online demonstration Test/Assignment or worksheets</li> </ul>		15
December	PREBOARD-1			
January	PREBOARD-2			

**SUBJECT – Mathematics CLASS – 10<sup>th</sup>**

MONTH	UNIT/TOPIC	METHODOLOGY/ ACTIVITIES	LEARNING OUTCOME	WORKING DAYS
<p><b>March</b></p>	<ul style="list-style-type: none"> <li>✓ <b>Unit II:ALGEBRA</b></li> <li>➤ <b>Chapter: Polynomials</b> <ul style="list-style-type: none"> <li>• Polynomials – Basic Terminology</li> <li>• Geometrical Meaning of Zeroes of a polynomial</li> <li>• Linear Polynomials</li> <li>• Quadratic Polynomials</li> <li>• Cubic Polynomials</li> <li>• Division Algorithm for Polynomials</li> </ul> </li> <li>➤ <b>Chapter: Linear Equations In Two Variables</b> <ul style="list-style-type: none"> <li>• Introduction to Pair of linear Equations</li> <li>• Solution of graphical method</li> <li>• Conditions of pair of linear equations</li> <li>• Solution by Substitution Method</li> <li>• Solution by Elimination Method</li> <li>• Solution by Cross Multiplication Method</li> </ul> </li> </ul>	<p>In this lesson, learners will recall the basic terminology of polynomials, their categories and the method to calculate their zeroes. They will also learn to find the zero or zeroes of a polynomial by studying its graph. Moreover, they will study the relationship between the zeroes and the coefficients of linear, quadratic and cubic polynomials. Further, they will learn about the division algorithm for polynomials and also verify the division algorithm.</p> <p><b><u>Activity - 1</u></b>  <b><u>Finding the zeroes of quadratic polynomial</u></b>            In this activity, students need to find the zeroes of the given quadratic polynomial and verify the relationship between the zeroes and the coefficients of the polynomial.</p> <p><b><u>Activity - 2</u></b>  <b><u>Division Algorithm Activity</u></b>            In this activity, students need to verify the division algorithm after performing the polynomial division.</p> <p>In this lesson, learners will study about the general form of a pair of linear equations in two variables. They will learn to solve a pair of linear equations in two variables by using the graphical method as well as the algebraic method, such as elimination, substitution and cross multiplication.</p> <p><b><u>Activity – 1: Graphical Method</u></b>            In this Activity, students need to graphically find the solution of a pair of linear equations in two variables</p> <p><b><u>Activity – 2: Chit Activity</u></b>            In this Activity, students need to algebraically find the</p>	<p>After studying this lesson, learners will be able to find the zeroes of the polynomial by studying its graph. They will also be able to verify the relationship between the zeroes and the coefficients of linear, quadratic and cubic polynomials. Further, they will be able to verify the division algorithm.</p> <p>After studying this lesson, learners will be able to solve a pair of linear equations by using the graphical method as well as the algebraic method, such as elimination, substitution and cross multiplication. They will also be able to non linear equations.</p>	<p>12</p>

		solutions of pair of equations.		
April	<ul style="list-style-type: none"> <li>✓ Unit II:ALGEBRA</li> <li>➤ Chapter: Quadratic Equations</li> <li>• Solving Quadratic Equations</li> <li>• Quadratic Formula</li> <li>• Sum and Product of Roots of a Quadratic Equation</li> </ul> <p>Find the Roots of a Quadratic Equation by using Completing the square method</p>	<p>This lesson will introduce learners to Quadratic Equations and the different methods to find their roots. They will also learn to derive the Quadratic formula and use it to find the roots of a Quadratic Equation. Further, they will learn to find the nature of the roots of a Quadratic Equation as well as the Sum and the Product of the roots.</p> <p><b><u>Activity – 1: Chit Activity</u></b> In this activity need to check if a given equation is a Quadratic Equation.</p> <p><b><u>Activity – 2: Nature, Sum and Product of Roots</u></b> In this activity, students need to determine the nature of the roots of Quadratic Equations. They also need to find the sum and the product of the roots, if the roots exist for a given equation.</p>	<p>After studying the lesson, learners should be able to identify a Quadratic Equation. They should also be able to find the roots of the Quadratic Equation using the methods of Factorization and completing the square. They should also be able to derive the formula and use it to find the roots of a Quadratic Equation. Further, they should be able to find the nature of the roots of a Quadratic Equation and the sum and the product of the roots.</p>	19

<p>May</p>	<ul style="list-style-type: none"> <li>✓ Unit II:ALGEBRA</li> <li>➤ Chapter: Arithmetic Progressions</li> <li>• General Term</li> <li>• Sum of n Terms</li> </ul>	<ul style="list-style-type: none"> <li>• Identify if a given series of numbers from an arithmetic progression</li> <li>• Derive the formula for the sum of the first n Terms of an A.P</li> <li>• Find the sum of the first n Terms of an A.P</li> <li>• Find the sum of the first n Positive Integers</li> </ul> <p>In this Lesson, learners will be introduced to the concept of A.P. They will learn about the general form of an A.P. They will also learn about the first term, the common difference and the nth term of an A.P and also they will learn to the sum of the first n terms of an A.P.</p> <p><b><u>Activity – 1: Flashcard Activity</u></b> In this activity, students need to answer the questions given on flashcards.</p> <p><b><u>Activity – 2: Chit Activity</u></b> In this activity, students need to answer questions on A.P</p> <ul style="list-style-type: none"> <li>• Derive the distance formula to find the distance between any two points whose coordinates are given.</li> <li>• Calculate the distance between any two points whose coordinates are given.</li> <li>• Derive the section Formula</li> <li>• Calculate the area of triangle when three vertices are given</li> <li>• Calculate the point of centroid</li> <li>• Collinearity</li> </ul>	<p>After Studying the lesson, learners should be able to identify the A.P. They should also be able to identify the first term and the common difference of an A.P and find the nth term of an A.P. Additionally, they should be able to find the sum of first n terms of an A.P and the sum of first n positive integers.</p> <p>After Studying the lesson, learners should be able to find the distance between any two points whose coordinates are given. They will also be able to find the coordinates of a point that divides a line segment joining two points of known coordinates internally in a given ratio. They will also be able to find the area of triangle when three vertices are given and also able to calculate the point of Centroid</p>	<p>20</p>
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	<ul style="list-style-type: none"> <li>✓ Unit III</li> <li>➤ Chapter: Coordinate Geometry</li> <li>• Distance Formula</li> <li>• Mid-Point Formula</li> <li>• Section Formula</li> <li>• Collinear</li> <li>• Centroid of a triangle</li> <li>• Area of triangle</li> </ul>	<p>In this lesson, the learners will learn to find the distance between two points whose coordinate are given. They will also learn to find the coordinates of a point that divides a line segment joining two points of known coordinates internally in a given ratio. Further, they will learn to calculate the area of a triangle using the coordinates of its vertices</p> <p><b><u>Activity:-1-Graph Activity</u></b> In this activity, students need to find the distance between two points marked on a graph paper and calculate the area of triangle drawn on a graph paper.</p> <p><b><u>Activity:-2-Problem Solving Using Section Formula</u></b> In this activity, students need to find the coordinates of a point that divides a line segment joining two points of known coordinates internally in a given ratio</p>		
June	<ul style="list-style-type: none"> <li>✓ Unit:7</li> <li>➤ Chapter: Statistics</li> <li>• <b>Mean of Grouped Data</b></li> <li>- Direct Method</li> <li>- Assume mean method</li> <li>• <b>Mode of Grouped Data</b></li> <li>• <b>Median of Grouped/ Ungrouped Data</b></li> </ul>	<p>This lesson will introduce the students to the various methods used to calculate the mean and mode of grouped data. They will also learn to find the median of grouped and ungrouped data. Moreover they will learn to graphically represent cumulative frequency curves.</p> <p><b><u>Activity – 2: Calculating the mean of grouped data</u></b> In this activity, students will calculate the mode of grouped data.</p> <p><b><u>Activity – 3: Calculating the median of grouped data/ungrouped data</u></b> In this activity, students will calculate the median of data/ungrouped data</p> <p>This lesson will introduce the concept of the theoretical probability. They will also learn about various terms, such as equally likely outcomes,</p>	<p>After studying this lesson students should be able to calculate the mean and mode of grouped data. They should also be able to calculate the median of grouped and ungrouped data.</p> <p>After studying this lesson, students will be able to learn about various terms, such as equally likely outcomes,</p>	14

	<ul style="list-style-type: none"> <li>✓ <b>Unit:7</b></li> <li>➤ <b>Chapter: Probability</b> <ul style="list-style-type: none"> <li>• Define probability</li> <li>• Define outcomes and events</li> <li>- Elementary event</li> <li>- Complementary of an Event</li> <li>- Sure Event</li> <li>- Impossible Event</li> </ul> </li> </ul>	<p>elementary events, complement of an event, sure event and impossible event. Moreover, they will be able to solve the questions based on theoretical probability.</p> <p><b><u>Activity – 1: Experiment</u></b> In this activity, students will perform an experiment to understand the difference between experimental probability and theoretical probability</p> <p><b><u>Activity – 2: Presentation</u></b> In this activity , students will perform experiments and explain various concepts, such as equally likely outcomes, complementary events, elementary events, sure events and impossible events.</p>	<p>elementary events, complement of an event, sure event and impossible event. Moreover, they will be able to solve the questions based on theoretical probability.</p>	
July	<ul style="list-style-type: none"> <li>✓ Unit:6</li> <li>➤ Area Related to Circles</li> <li>➤ Surface Area and Volume</li> </ul>	<p>In this lesson, learners will recall various geometrical terms related to a circle such as chord, radius, diameter, arc, segment, sector and circumference. They will also be taught to calculate the length of an arc of a circle and the areas of a sector and a segment of a circle and also calculate the areas of combinations of plane figures.</p> <p>In this lesson, learners will calculate the surface areas and the volumes of the combination of solids.</p> <p><b><u>Activity – 1: Area of a sector and length of an arc</u></b></p> <p><b><u>Activity – 2: Surface Areas and volumes Activity</u></b> Show that volume of cone is one third of volume of cylinder.</p>	<p>Students will be able to solve the problem of Area Related to Circles and Surface Area and Volume</p>	19
	<ul style="list-style-type: none"> <li>✓ Unit: 5</li> <li>➤ Introduction to Trigonometry <ul style="list-style-type: none"> <li>• Trigonometric Ratios of</li> </ul> </li> </ul>	<p>This lesson will introduce students to the concept of trigonometric ratios of an acute angle in a right angle triangle. They will learn about the specific angles such as angle <math>0^\circ</math>, <math>30^\circ</math>, <math>45^\circ</math>, <math>60^\circ</math> and complementary</p>	<p>After studying this lesson, students will be able to solve the problems of Trigonometry</p>	18

August	<p>an Angle</p> <ul style="list-style-type: none"> <li>• Calculating Trigonometric Ratios</li> <li>• Trigonometric Ratios of angle <math>0^\circ</math>, <math>30^\circ</math>, <math>45^\circ</math>, <math>60^\circ</math>, <math>90^\circ</math></li> <li>• Trigonometric Ratios of complementary angles</li> <li>• Trigonometric Identities</li> </ul>	<p>angles and trigonometric identities.</p> <p><b><u>Activity – 1: Presentations on trigonometric ratios</u></b></p> <p><b><u>Activity – 2: Grid Activity</u></b></p>		
September	<b>Revision and Examination</b>			22

<p>October</p>	<ul style="list-style-type: none"> <li>✓ Unit: IV Chapter: Geometry (Construction and Circles) <ul style="list-style-type: none"> <li>• Division of a line segment</li> <li>• Construction of similar triangles</li> <li>• Construction of a tangent to a circle</li> <li>• Tangents to a circle</li> </ul> </li>   <li>✓ Unit: 5 <ul style="list-style-type: none"> <li>➤ <b>Some Application of Trigonometry</b> <ul style="list-style-type: none"> <li>• Height and Distances</li> </ul> </li> </ul> </li>   <li>✓ Unit: 1 <ul style="list-style-type: none"> <li>➤ <b>Real Numbers</b> <ul style="list-style-type: none"> <li>• Describe Euclid's Division Lemma</li> <li>• Calculate HCF of two positive integers using Euclid Lemma</li> <li>• Recall the properties of Irrational numbers</li> <li>• Express a number as a product of its prime factors</li> </ul> </li> <li>Describe the fundamental theorem of arithmetic</li> </ul> </li> </ul>	<p>In this lesson, students will learn about tangents and secants to a circle.</p> <p>In this lesson, learners will be taught to divide a line segment in a given ratio using a compass. They will learn the construction of a triangle similar to a given triangle as per the specified scale factor</p> <p>This lesson will introduce students to the concept of Angle of elevation and angle of depression. Also, they will learn to solve the problems of Height and Distances using the trigonometric ratios.</p> <p><b><u>Activity – 3: Grid Activity</u></b></p> <p>This lesson will introduce learners to Euclid division Lemma and the fundamental theorem of arithmetic. Further, they will learn the prime factorization method. They will so learn the properties of rational and irrational numbers.</p> <p><b><u>Activity – 1: Presentations:</u></b> Rational and irrational numbers.</p>	<p>After studying this lesson, students will be able to construct and verify the construction of tangents and similar triangles.</p> <p>After studying this lesson, students will be able to solve the problems of Trigonometry and its applications.</p> <p>After studying this lesson, students will be able to solve the problems of real numbers.</p>	<p>15</p>
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November	<ul style="list-style-type: none"> <li>✓ Unit: 4</li> <li>➤ Chapter: Triangles <ul style="list-style-type: none"> <li>• Similar Objects</li> <li>• Basic Proportional Theorem</li> <li>• AAA Similarity Criteria</li> <li>• SSS Similarity Criteria</li>   <li>• SAS Similarity Criteria</li> <li>• Areas of similar Triangles</li> <li>Pythagoras Theorem</li> </ul> </li> <li>○ <b>Art Integrated Activities</b> <ul style="list-style-type: none"> <li>▪ How to make spiroilateral math art project</li> </ul> </li> </ul>	<p>This lesson will introduce students to the concept of similarity. They will learn about the similarity of different figures and the similarity of triangles. They will also learn important theorems like BPT and its converse, Pythagoras and its converse and Area ratio theorem and similarity criterias.</p>	<p>After studying this lesson, students will be able to solve the problems of Triangles.</p>	20
December	Revision and Pre – board - I			22
January	Revision and Pre – board - II			18

MONTH	UNIT/TOPIC	METHODOLOGY/ ACTIVITIES (through Online Labs Website)	LEARNING OUTCOME	WORKING DAYS
March	<p><u>Electricity</u></p> <p>Electric current, Electric circuits, Electric potential, Potential difference, Circuit diagrams and Ohm’s Law</p>	<p>To identify the components of a circuit like ammeter, voltmeter, resistors, rheostat, etc.</p> <p>To verify Ohm’s Law in Virtual Laboratory</p>	<p>Students are able to understand the importance of electricity in our daily life.</p> <p>They are able to understand how current flows through a circuit and what are the required conditions for the flow of current in a conductor.</p>	12
April	<p><u>Electricity (contd.)</u></p> <p>Resistance, Resistivity, Resistors in series and parallel, Heating Effect and its applications, Electric power and Electrical Energy</p>	<p>To study the dependence of resistance of a conductor on its length and area of its cross section.</p> <p>To study the combination of resistors in series and in parallel and to find their equivalent resistance.</p> <p>To learn how to study an electricity bill.</p>	<p>Students are able to understand the concept of resistance and analyze the different combinations of resistors.</p> <p>They are able to draw the circuit diagrams.</p> <p>They can understand what is electric power and how to calculate an electricity bill.</p>	19
May	<p><u>Magnetic Effects of Electric Current</u></p> <p>Magnetic field and field lines, Oersted’s experiment, Magnetic field due to a current carrying conductor (straight and circular), Right hand thumb rule</p>	<p>To demonstrate how to plot the magnetic field pattern of a bar magnet using a magnetic compass.</p> <p>To demonstrate the force experienced by a conductor in magnetic field using ‘Kick Wire Experiment’.</p>	<p>Students are able to understand about magnetic field and magnetic field lines.</p>	20

<p style="text-align: center;"><b>June</b></p>	<p><u>Magnetic Effects of Electric Current (contd.)</u></p> <p>Fleming's left and right hand rules, Solenoid, Electric motor, Electromagnetic Induction, Induced Current and Induced Voltage</p>	<p>To show the working and components of an electric motor.</p> <p>To demonstrate the Faraday's Experiments of Electromagnetic induction</p>	<p>Student can apply the different rules like right hand thumb rule to solve the problems.</p> <p>Students are able to understand the working of a motor.</p>	<p style="text-align: center;"><b>14</b></p>
<p style="text-align: center;"><b>July</b></p>	<p><u>Reflection and Refraction of Light</u></p> <p>Reflection of light, Types and Laws of reflection, Plane and Spherical mirrors, Image formation by spherical mirrors, Ray diagrams</p>	<p>To show the reflection of light by different kinds of mirrors using Laser Torch.</p> <p>To show the formation of real images by a concave mirror.</p> <p>To find the focal length of a concave mirror using a distant object.</p>	<p>Students can understand the concept of reflection of light through different kinds of mirrors.</p> <p>They can draw the ray diagrams and apply mirror formula to solve various problems.</p>	<p style="text-align: center;"><b>19</b></p>
<p style="text-align: center;"><b>August</b></p>	<p><u>Reflection and Refraction of Light (contd.)</u></p> <p>Sign convention, Mirror formula, Magnification Refraction through a glass slab, Spherical lenses, Image formation by spherical lenses, Ray diagrams, Sign convention, Lens formula, Magnification, Power of a lens</p>	<p>To show the formation of real images by a convex lens.</p> <p>To show the refraction of light through spherical lenses.</p> <p>To trace the path of a ray of light through a rectangular glass slab and a glass prism.</p> <p>To find the focal length of a convex lens using a distant object.</p>	<p>Students can understand the concept of refraction of light through different kinds of objects like lenses, slab and prism.</p> <p>They can draw the ray diagrams and apply lens formula to solve various problems.</p>	<p style="text-align: center;"><b>18</b></p>
<p style="text-align: center;"><b>September</b></p>	<p style="text-align: center;"><b>REVISION</b></p>	<p style="text-align: center;">Online Tests, Revision Worksheets, Practice of NCERT Exemplar Problems, CBSE Sample Papers and Previous Year Question Papers</p>	<p style="text-align: center;"><b>22</b></p>	

<b>October</b>	Power of accommodation, refraction through a prism.  Dispersion of light, Formation of Rainbow, Atmospheric Refraction, Scattering of Light and Twinkling of Stars.	To show the dispersion of light through a glass prism.  Documentary on functionality of Human Eye and defects of vision.  To show the scattering of light.	Students are able to understand dispersion of light, atmospheric refraction and scattering of light and various optical phenomenon.	<b>15</b>
<b>November</b>	<b>REVISION</b>	Online Tests, Revision Worksheets, Practice of NCERT questions and NCERT Exemplar Problems, CBSE Sample Papers and Previous Year Question Papers		<b>20</b>
<b>December</b>	<b>REVISION</b>	<b>First Pre-Board Examination</b>		<b>22</b>
<b>January</b>	<b>REVISION</b>	<b>Second Pre-Board Examination</b>		<b>18</b>

## Biologyclasss 10

<b>MONTH</b>	<b>UNIT/TOPIC</b>	<b>METHODOLOGY/ ACTIVITIES</b>	<b>LEARNING OUTCOME</b>	<b>WORKING DAYS</b>
<b>March</b> life process	Nutrition, nutrition in plants and human beings, respiration type of respiration,	Zoom meeting, PPT, Board Marker, lecture method, short videos and test google.	After reading this chapter students will be able to answer:  What processes would you consider essential for maintain life?  What is the role of the acid in our stomach?	12
<b>April</b> life process	transportation of material ,heart structure and function, excretion	Zoom meeting, PPT, Board Marker, lecture method, short videos and test google.	What is the function of digestive enzymes?  How deoxygenated and oxygenate blood separate in body?	19

<b>May</b> How do organism reproduce?	Asexual and sexual reproduction in plants, cutting layering and grafting methods in plant (vegetative prorogation) flowers part and their functions.	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.	The students will be able to:  Express the modes of reproduction by single organism.  Discuss sexual reproduction in plants.  Explain asexual reproduction in bacteria and amoeba, fungi.	20
<b>June</b> how do organism reproduce?	Sexual reproduction in humans, reproductive health,	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.	students will be able to explain:  What is the function of scrotum?  What happen if egg is not fertilised?	14
<b>July</b> our environment	biotic and biotic component's of environment, food chain and food web, trophic levels, waste management	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.	How food chain maintain environment?  Why decomposers are very important in environment?	19
<b>August</b>	Revision for term examination	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.		18
<b>September</b>	Term I Exam			22
<b>October</b> management of natural resources.	Types of water pollution and ganga action plan stake holders and their importance water harvesting ancient and modern methods.	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.	Students will be able to explain why conservation of natural resources is necessary?  What is sustainable development?	15

<b>November</b>	Mendel's law of heredity, Blood group inheritance, Evolution, theories of evolution, human origin and evolution.	Zoom meeting, PPt, Board Marker, lecture method, short videos and test google.	Students will be able to answer : Why mendal chosen pea plant? How evolution occurs? What is the importance of variation? Different theories on evolution.	20
<b>December</b>	1 <sup>st</sup> Pre-Board			22
<b>January</b>	2 <sup>nd</sup> Pre-Board			16

## Chemistry

## Class-10

<b>MONTHS</b>	<b>TOPIC</b>	<b>METHODOLOGY/ACTIVITIES</b>	<b>Learning outcome</b>	<b>DAYS</b>
<b>March</b>	<b>Chemical Reactions and Equations</b> <ul style="list-style-type: none"> <li>Chemical equation, Balanced chemical equation, implications of a balanced chemical</li> <li>Combination</li> </ul>	With the help of virtual experiment the chemical reactions would be shown to them. Concept can also be explained by the Power point presentation.	Children would understand what is meant by a chemical reaction and would be able to  construct balanced chemical equations to represent reactions	12
<b>April</b>	<ul style="list-style-type: none"> <li>Decomposition,</li> <li>Displacement,</li> <li>Double displacement, Precipitation,</li> <li>Neutralization,</li> <li>Oxidation, and reduction.</li> </ul>	Role play Story telling competition And the examples from their daily life	Children would be able to write any chemical change into the form of chemical equations .	19

<p><b>May</b></p>	<p><b>Acids Bases and Salts</b></p> <ul style="list-style-type: none"> <li>• Their definitions in terms of furnishing of H<sup>+</sup> and OH<sup>-</sup> ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required),</li> </ul>	<p>Studying the properties of acids and bases (HCl&amp;NaOH) on the basis of their reaction with a) Litmus solution (Blue/Red) Unit-I b) Zinc metal c) Solid sodium carbonat.</p>	<p>Children would be able to understand the differences between acids bases and salts . They will understand the role of pH in tooth decay.</p>	<p>20</p>
<p><b>June</b></p>	<ul style="list-style-type: none"> <li>• importance of pH in everyday life;</li> <li>• preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris</li> </ul>	<p>Science kit</p> <p>This is one of the innovative methods of teaching scid and base to children by the use of indicators . now making use of <b>science kits</b> to help students have an engaging educational experience.</p>	<p>Students would know the uses of different salts which can bemade by common salt.</p>	<p>14</p>
<p><b>July</b></p>	<p><b>Metals and Non-Metals</b></p> <ul style="list-style-type: none"> <li>• Properties of metals and non-metals</li> <li>• Reactivity series</li> <li>• Formation and properties of ionic compounds</li> </ul>	<p>Observing the action of Zn, Fe, Cu, and Al metals on the following salt solutions:</p> <p>ZnSO<sub>4</sub>(aq)  ii) FeSO<sub>4</sub>(aq)  iii) CuSO<sub>4</sub>(aq)  iv) Al<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub>  (aq) Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result</p>	<p>Children would understand the place of metals and nonmetals in periodic table and their properties</p>	<p>19</p>
<p><b>August</b></p>	<p><b>Revision</b></p>	<p><b>Projects based on integral art</b>  it would be a group activity that helps students to showcase the application side of what they learnt through theory.  This method involves choosing the idea, building a plan, executing the plan and finally evaluating it. When students pass through these stages, they can improve their skills to express ideas, problem solving, overcoming the challenges, team work and self assessment. By using the tools of <b>Multimedia Approach, Video clips ,Power Points/ science fairs/ role play to /or by science songs</b> topromote students interest in the subject as well as to evaluate their level of understanding.  Or a competition, students can be given a</p>	<p>Integral art learning project</p> <p>involves choosing the idea, building a plan, executing the plan and finally evaluating it. When students pass through these stages, they can improve their skills to express ideas, problem solving, overcoming the challenges, team work</p>	<p>18</p>

		time frame to answer a question or perform a task through a range of experiments and research. They showcase the output in the form of reports, display board, or as models	and self assessment.	
September	<b>First Term Examination</b>			22
October	<b>Carbon and it's compound</b> <ul style="list-style-type: none"> <li>• Covalent bonding in carbon compounds.</li> <li>• Versatile nature of carbon. Homologous series.</li> </ul>	Worksheets based on homologues series.  Models to show covalent bonding in organic compounds. 3-D models of alkanes		15
November	<b>Periodic classification of elements</b> <ul style="list-style-type: none"> <li>• Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties</li> </ul>	Make an innovative periodic table.  Interpret the arrangement of the periodic table including groups, periods This is an activity designed to help students demonstrate an understanding of the arrangement of the periodic  Make and learn a song to memorize the periodic table.	The student will understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.	20
December	First Pre-board			22
January	Second Pre-board			18

## Subject- English

## Class-10

Month	Topic\Unit	Methodology\Activities	Learning out comes	Working Days
March	First flight Unit, 1 A letter to god	This story is about extreme faith in god. Students will be asked to participate in the self reading deducing the meaning of difficult words , enabling them to comprehend the text. they will be asked to co relate the story with daily life.	The students will be able to understand that faith can move mountains and importance of faith in life.	12 Days
	First flight Dust of snow	The poem teaches us that we should not be desperate because there is always an opportunity to change the sad mood in to a happy mood. Students will be asked to read the poem recognizing different poetic devices & analysing the gist of poem. It will develop a positive attitude among learners.	The students will understand the importance of changes, and scope of improvement in each and every situation.	
	First flight Fire and ice  Grammar- Tenses	During introductory session students will be introduced with the gist of poem enabling them to understand concept of symbolism and other poetic devices.  The session would start with the proactivity speaking about their 'daily routine'. The learners would be first taught the difference between the types of verbs and tenses. All types of sentences would be discussed with the rules including examples. Learners would participate in written and oral practice.	Student will evaluate contrasting interpretation of the poem. They will develop an understanding of symbolism.  The learners would be able to identify verbs in the sentences and extract the differences	
	First flight Unit 2 Nelson Mandela: Long walk To freedom	The lesson reveals the important events in the life of Nelson Mandela. Before reading the chapter, students will be suggested some warm up activities and to read more about Nelson Mandela.	Students will be able to understand there is no substitute of hard work and dedication. They will be able to understand a quality of a good leader.	

	<p>First flight A tiger in the zoo</p> <p>Writing skills- Analytical Paragraph</p>	<p>Students will be asked some general questions about wild animals and their natural habitat. They will be asked to comprehend the poem and then to explain the gist in the class.</p> <p>Students will be encouraged to To generate ideas, to experiment with language ,toanalyse and plan how to group the information Recommended essay structure will be recapitulated Will be explained how to express opinion with logics and examples</p>	<p>Students will be able to differentiate between the natural habitat and man-made habitat of a tiger.</p> <p>Students will be able to improve their analytical thinking</p>	
	<p>Footprints without feet A Triumph of Surgery.</p> <p>Writing skills- Letter writing (placing order)</p>	<p>Students will be asked some questions related to physical fitness and causes of obesity. After reading the story they will be asked to co relate the situation with their own life and importance of Yoga and healthy diet</p> <p>Students will be provided a suitable format following other required hints to write a letter. They will be asked to compose informal letters as pre-activity in order to enhance their knowledge.</p>	<p>Learner would develop their reading and language skills. Learner will learn not to over feed their pet.</p> <p>Students will learn to draft different types of letters. They will learn to convey a message from one person to another.</p>	
April	<p>First Flight Unit 3 Two stories about flying Part 1-His first flight</p>	<p>This is a magnificent story about courage and self -confidence. Students will be asked some pre reading questions related to the theme. They will be asked to analyse their fear and shortcomings.</p> <p>Various questions will be posed to students in order to get the answer using an appropriate modal. Students will be asked to construct their own sentences as well</p>	<p>Students will be able to develop a sense for challenges and opportunity comes in their life.</p>	19 Days

	Grammar Modals		The learners would be able to identify the use of different modals in context of various situations.	
	First flight Two stories about flying Part-2 Black Aeroplane  Writing skills  Descriptive paragraph	The story depicts vividly the mystery and suspense. Students can be asked to narrate their own examples on the basis of the story. They will be asked to correlate the Myth and reality.  To write a descriptive paragraph students will be asked to study their topic closely, make a list of the details they observe, and to organise these details into a logical structure.	Students will evaluate- Apart from advancement of technology some mysteries really exist.  Students will be able to prepare a draft or writing piece on their own.	
	First flight The Ball Poem.	This poem makes us realize that gains and losses are part and parcel of life. Students will be asked to understand and enjoy the theme and the language by reading with close attention looking for familiar and unfamiliar words to comprehend them.	Students will understand the steps involved in the analysis and interpretation in poem. They will learn nothing is permanent in the world of possessions.	
	First flight Unit 4 From The Diary of Anne Frank	Students will be asked to analyse Conditions before war and after war. On the basis of pre knowledge they will be asked about the hardships faced by concerned people. Chapter will be explained with deep patience describing the negative effect of war  On the basis of learner's previous knowledge, they will be	Learner will understand the power of non-fiction memories and personal observation. They will understand the importance of hearing from people	

	Letter to Editor	asked to draft the format and content.	<p>who are marginalized in society and they can be a powerful weapon against repeating mistakes of the past.</p> <p>Students will be able to draft various letters in order to satisfy various needs to pass or send required message</p>	
	First flight Amanda	In this poem the poet shows children love freedom and they do not love only restrictions. Students will be asked to describe different restrictions which they do not like on the other hand they will be informed about the importance of parents in one's life.	<p>Students will be able to understand- New words and phrases Learn the use of imperatives. Explore the poetry.</p>	
	Footprints without feet The Thief's Story	Students will be asked to read the story deducing the meanings of difficult words. It will enable them to comprehend the merits and demerits of an individual. Later they will be able to develop a positive character.	<ul style="list-style-type: none"> <li>➤ Learner will be able to understand the quality of faith and compassion</li> <li>➤ Importance of education.</li> </ul>	

May	<p>First Flight Unit 5</p> <p>The Hundred Dresses-1</p>	<p>Learner will be able to understand- New words and phrases to develop sensitivity towards poor people. To understand a piece of individual research.</p>		20 Days
	<p>First flight</p> <p>Unit 6 The Hundred Dresses-2</p> <p>Writing skills</p> <p>Complaint Letter</p>	<p>Students will be provided a suitable format and guidelines to write a complaint letter.</p>	<p>Learner will be able to explore their sense for lit and language. The students will get familiar with the thought of repentance.</p> <p>Students will be able to express themselves independently.</p>	
	<p>First flight Animals</p>	<p>The poem is about comparison between human being and animals. Human are too busy to find Fault with others where as animals are satisfied with their own self. Same thought will be propound among students through deep explanation Of the poem.</p>	<p>Learner will be able to -distinguish the characteristics of a human and animals . Increase their analytical skills.</p>	

	Footprints Without Feet  Footprints Without Feet	The teacher will explain the chapter highlighting the positive aspect of a successful person. some warm up activities will be conducted for the better understanding of the chapter.	Learner will develop- A comprehensive approach for reading and language. Write fluently and accurately.	
<b>JUNE</b>	<b>Reading skills- Assignment</b>	<b>Students will be taught how to Think while reading. They will be Asked to read more to Comprehend More</b>	<b>For courses in content areas.</b>	14 days
July	Unit 7 First Flight Glimpses of India Part-1 A Baker From Goa	Through this chapter students will be introduced with the glimpses of India as a vast country. Students will be asked to tell name of different places where they had been and tell about their speciality.	Student will be able to understand and develop a comprehensions approach for Paders. They are able to understand tradition and nostalgic aspects of bakers from Goa.	19 Days
	First flight Glimpses of India Part-2 Coorg	Coorg is a beautiful place of the high lands with a generally cool and wet climate. Students will be asked to describe a place of same scenic beauty.	Learner will be able to understand the essence of nature. They will praise nature.	
	First flight Glimpses of India Part-3 Tea of Assam  Grammar  Reported speech	Students will be asked to read the chapter and to prepare a collage with the help of photographs .  The teacher would start with a game board where the class would be divided into three groups involving direct and indirect dialogues to test the students' prior knowledge. The changes would be explained. The rules to change direct sentences to indirect would be explained through rule chart	Student will be able to- Gather knowledge about Tea plantation. A comprehensive approach for tea.	

		and examples. The changes in the verb, pronouns and time would be detailed. The learners would be taught about the usage of reporting verbs.	They would be able to identify the use of punctuations in direct speech and the changes followed in the indirect speech.	
	Footprints without feet  The Making of a Scientist	This lesson is on account of a curious child channelizing his curiosity to become a scientist. This is long journey of struggle, failure of a scientist. After reading the chapter students will learn to identify their character traits and interest. They will be able to analyse their hobbies and interest.	Learner will be able to recognize – Hard work is the key to success. Usage of new words and style of language.	
August	First Flight Unit 9 Madam rides the bus.	The chapter will be explained to the students along with the difficult words. Some pre reading questions will be asked to students related to the theme of chapter. Students will be asked to learn dialogue writing after reading the chapter.	Student will be able to learn. Good usage of language and style Ultimate reality of life. Death is the end of every human being.	18 Days
	First flight The tale of custard dragon          Writing skills  Letter of Enquiry	This poem deals with the theme of courage and wisdom. This poem is a humorous ballad which shows the courage of a Dragon. Students will be asked to have a silent reading of the chapter understanding the core message. By this time learners would be able to identify different poetic devices on their own.  Suitable format would be provided to the students.	Learner will be able to understand difference between reality and fancy. Some things can be simplified by courage.          Students will be able to draft various letters.	

	First flight Unit 10 The sermon at Benares	This story deals with the journey of Gautama Buddha in search of enlightenment. Chapter will be explained by teacher with great patience highlighting the supreme truth of life. Students will be told to inherit supreme truth of life	Learner will be able to learn- Joy and sorrow are the two aspects of life. Develop an interest towards language and literature.	
	Footprints without feet The Necklace	Since the story set upon the highest qualities of oneslife ,same would be explained through direct method describing important text and word meanings.	Students will be able to understand – we should content with what life gives us. Honesty is the best policy.	
	Footprints without feet The Hack Driver	The story sets upon humorous setting. It will enable students to create and analyse various humorous situation. Teacher will explain the story highlighting the key points.	Learner would develop their reading and language skills. They would develop an interest towards language and literature.	

**SEPTEMBER REVISION\ FIRST TERM EXAMINATION**

**Assessment of speaking and listening skills**

22 Days

October	First flight Unit 11 The Proposal  Grammar  Subject verb concord	The one act play, the proposal throws light on the lifestyle of the landlords of Russia in the 19th century. Students Will be asked to have a role play on the same to comprehend emotions and humorous situations.  Students will be made familiar with different rules through white board.	The learner would develop their reading and language skills. They would develop an interest toward play and drama. Learner would be able to stage and perform thus building their confidence.	15 Days
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			Students will be able to make correct use of verb according to subject.	
	Footprints without feet  Bholi	Some pre reading questions and warm up activities would be conducted in the class for better understanding of the chapter. Students will be asked to develop a positive attitude towards disabled children.	Learner will be able to understand - Different between normal and disabled child. Emotional support is very important in a child growth.	
<b>NOVEMBER REVISION</b>		<b>20 Days</b>		
<b>DECEMBER</b>	Art integrated activity  <b>FIRSTPRE BOARD EXAMINATION</b>	There are a number of craft based professions which are dying out pick one of the crafts below and make a group presentation about the skills required, and the possible reasons for the decline of the craft. Also suggest ways to revive these crafts. -Pottery -Batik work -Embroidery -Bamboo weaving (Chapters Glimpses of india)	Students will be able to inhance their knowledge about various crafts work and develop a taste for the same suggesting new ways and methods to revive these ancient arts.	22 days
<b>JANUARY</b>		<b>SECOND PRE BOARD EXAMINATION</b>		<b>18 days</b>