

वा षक अ यापन प रयोजना

स 2024-25

क ा 11 वी, वषय हद

(1 अ ैल)

पाठ: 1 नमक का दारोगा

पाठ 2 मयां नसी न

अ भ मा यम जनसंचार प लेखन:

भारतीय मी डया के वशेष संदभ मा।

क ा ग त व ध:

पठन-पाठन पाठ का मू यांकन

अ धगम: वादन: वाचन।

ग ांश उ र पदो क ा या एवं उससे संबं धत उदाहरण।

लेखन कौशल

पाठ का सारांश अन्तु ाद वा य के  
कार।

(1 मई)

पाठ अपू के साथ ढाई साल।

पाठ वदाई संभाषण

क ा ग त व ध:

पठन-पाठन पाठ का मू यांकन

अ धगम: वादन: वाचन।

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लेखन कौशल

पाठ का सारांश अन्तु ाद वा य के  
कार,

(1 जुलाई)

पाठ भारतीय गा यका म ब्ने ोड़-लता मंगशे कर

पाठ राजान क रजत बूँ

पाठ आलो-अँा र

क ा गतव

ध पठन-पाठन (वातालाप) क वता वाचन।

खं

गंश उ र पद क ा या वा य के उदाहरण

पाठ का सारांश अन्वु ाद वा य के  
कार।

(1 अगत)

पाठ गलता लोहा

पाठ रजनी

अभ मा यम, प लेखन

क ा गतव ध

पठन-पाठन खं (वातालाप) क वता वाचन।

गंश उ र पद क ा या वा य के उदाहरण

पाठ का सारांश अन्वु ाद वा य के  
कार।

(1 सत बर)

पाठ जामुन का पेड़

पाठ भारत मात

क ा गतव ध:

पठन-पाठन पाठ का मू यांकन

अ धगम: वादन: वाचन।

ग ांश उ र पदो क ा या एवं उससे संबं धत उदाहरण।

लेखन कौशल

पाठ का सारांश अन्वु ाद वा य के कार।

(1 अ टूबर)

पाठ हम तो एक एक क र जाना, संतो देखत जग बोराना

पाठ प थक

पठन पाठन पाठ का मू यांकन

अ यास काय ० उ० ब वक पीय का पर अधा रत शन अ यास काय क प रभाषा।  
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(1 नवंबर )

पाठ घर क याद

पाठ हे श्लू मत मचल

क ा ग त व ध:

पठन-पाठन पाठ का मू यांकन

अ धगम: वादन: वाचन।

ग ांश उ र पदो क ा या एवं उससे संबं धत उदाहरण।

लेखन कौशल

पाठ का सारांश अनवु ाद वा य के कार।

**Curriculum Plan of Computer Science  
(Session: 2023-2024)**

**class : XI**

<b>Month/Topic</b>	<b>Theory</b>	<b>Practical/Project</b>	<b>Miscellaneous</b>
<b>July</b> <b>Topic:</b> Computer Systems and Organisation	<ul style="list-style-type: none"> <li>➤ Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery.</li> <li>➤ Types of software: application, System, utility.</li> <li>➤ Memory Units: bit, byte, MB, GB, TB, and PB</li> <li>➤ Boolean logic: OR, AND, NAND, NOR, XOR, NOT, truth tables, De Morgan’s laws</li> <li>➤ Information representation: numbers in base 2, 8, 16,</li> <li>➤ Strings: ASCII, UTF8, UTF32, ISCII (Indian script code), Unicode</li> <li>➤ Basic Concepts of Flowchart</li> <li>➤ Concept of Compiler &amp; Interpreter</li> <li>➤ Running a program: Notion of an operating system, how an operating system runs a program, idea of loading, operating system as a resource manager.</li> <li>➤ Concept of cloud computing, cloud (public/private), introduction to parallel computing.</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration of computer showing different parts of CPU.</li> <li>• Drawing Flowcharts               <ul style="list-style-type: none"> <li>○ to find successor and predecessor of a given number</li> <li>○ to find sum of two numbers</li> <li>○ to find average of three numbers</li> <li>○ to find whether a given number is positive or negative</li> <li>○ to find whether a given number is even or odd</li> <li>○ to print first 10 natural/whole numbers</li> <li>○ to develop infinite loop</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Assignment               <ul style="list-style-type: none"> <li>○ Computer fundamentals</li> <li>○ Boolean Logic</li> <li>○ Information Representation</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Art Integration               <ul style="list-style-type: none"> <li>○ Draw the block diagram of computer</li> </ul> </li> <li>• Video               <ul style="list-style-type: none"> <li>○ Software</li> <li>○ Cloud computing</li> </ul> </li> <li>• Core Skills               <ul style="list-style-type: none"> <li>○ Problem solving</li> <li>○ Critical thinking</li> <li>○ Decision making</li> <li>○ Empathy</li> </ul> </li> </ul>
<b>August</b> <b>Topic:</b> Computational Thinking and Programming.	<ul style="list-style-type: none"> <li>➤ Basics of Computational Thinking: Decomposition, Pattern Recognition/ Data representation, Generalization/ Data Abstraction and algorithm.</li> <li>➤ Familiarization with the basics of Python programming: a simple “hello world” program, process of writing a program (Interactive &amp; Script mode), running it, and print statements; simple data-types: integer, float, string</li> </ul>	<p>Write a program to</p> <ul style="list-style-type: none"> <li>• display “hello world” on screen</li> <li>• print the successor, predecessor, half, double of a given number</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment               <ul style="list-style-type: none"> <li>○ Computational Thinking</li> <li>○ Python Programming</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Video               <ul style="list-style-type: none"> <li>○ Computational Thinking</li> </ul> </li> </ul>

Month/Topic	Theory	Practical/Project	Miscellaneous
	<ul style="list-style-type: none"> <li>➤ Features of Python, Python Character Set, Token &amp; Identifiers, Keywords, Literals, Delimiters, operators.</li> <li>➤ Comments: (Single line &amp; Multiline/ Continuation statements), Clarity &amp; Simplification of expression.</li> <li>➤ Introduce the notion of a variable, and methods to manipulate it (concept of Lvalue and R-value even if not taught explicitly).</li> <li>➤ Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.</li> <li>➤ Operators &amp; types: Binary operators – Arithmetic, Relational operators, Logical Operators, Augmented Assignment operators.</li> </ul>	<p>Write programs in Python to</p> <ul style="list-style-type: none"> <li>• Find the sum of two numbers</li> <li>• Find the average of three numbers</li> <li>• Accept values in four variables from use. Divide the sum of first two numbers by the difference of last two numbers and display the result</li> <li>• Find whether a given number is positive/ negative</li> <li>• Find whether a given number is even/odd</li> <li>• Find the bigger/smaller of two numbers</li> <li>• Find the biggest/smallest of three numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment <ul style="list-style-type: none"> <li>○ Python Programming</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Core Skills <ul style="list-style-type: none"> <li>○ Problem solving</li> <li>○ Critical thinking</li> <li>○ Creative thinking</li> <li>○ Decision making</li> <li>○ Empathy</li> <li>○ Interpersonal relationship</li> <li>○ Self-awareness</li> </ul> </li> </ul>
<p>September <b>Topic:</b> Computational Thinking and Programming</p>	<ul style="list-style-type: none"> <li>➤ Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, and divisibility.</li> <li>➤ Notion of iterative computation and <b>control</b> flow: for(range(), len()), while, flowcharts, suggested programs: interest calculation and factorials, etc.</li> <li>➤ Idea of debugging: errors and exceptions; debugging: pdb, break points.</li> </ul>	<ul style="list-style-type: none"> <li>• Find the factorial of a given number.</li> <li>• Accept values for Principle, Rate of Interest and Time. Calculate Simple Interest.</li> <li>• Find <math>x^n</math>.</li> <li>• Print first N natural/whole numbers in forward/reverse order</li> <li>• Print even/odd numbers between 1 and N.</li> <li>• Find whether a given number is prime or not</li> <li>• Find if a number is equal to the sum of the cubes of its digits.</li> <li>• Find the reverse of a given number</li> <li>• Find the sum of digits of a given number</li> <li>• Find LCM and HCF of two given numbers</li> </ul>	

Month/Topic	Theory	Practical/Project	Miscellaneous
<b>September</b> <b>Topic:</b> Computational Thinking and Programming	<ul style="list-style-type: none"> <li>➤ Lists, tuples and dictionary: finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers and names.</li> <li>➤ Sorting algorithm: bubble and insertion sort; count the number of operations while sorting.</li> <li>➤ Strings: Traversing, compare, concat, substring.</li> <li>➤ Introduction to Python modules: Importing math (sqrt, cell, floor, pow, fabs, sin, cos, tan, random (random, randint, randrange), statistics (mean, median, mode) modules.</li> </ul>	Write programs in Python to <ul style="list-style-type: none"> <li>• Search for a number/name in the given list</li> <li>• Arrange the numbers in ascending/descending order</li> <li>• Find the largest/smallest number in a given list</li> <li>• Find the second largest/ smallest number in a given list</li> <li>• Find the reverse of a given string</li> <li>• Find whether a given string is palindrome or not</li> <li>• Project Work</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment               <ul style="list-style-type: none"> <li>○ Python Programming</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Core Skills               <ul style="list-style-type: none"> <li>○ Problem solving</li> <li>○ Critical thinking</li> <li>○ Creative thinking</li> <li>○ Decision making</li> <li>○ Empathy</li> </ul> </li> </ul>
<b>September</b>	<b>Half Yearly Examination</b>		
<b>October</b> <b>Topic:</b> Data Management	<ul style="list-style-type: none"> <li>➤ Relational databases: Concept of a database, relations, attributes and tuples, keys- candidate key, primary key, alternate key, foreign key, Degree and cardinality of a table.</li> <li>➤ Use SQL – DDL/ DML commands to CREATE TABLE, INSERT INTO, UPDATE TABLE, DELETE FROM, ALTER TABLE, MODIFY TABLE, DROP TABLE, keys, and foreign keys; to view content of a table: SELECT-FROM WHERE-ORDER BY along with BETWEEN, IN, LIKE (Queries only on single table)</li> </ul>	<ul style="list-style-type: none"> <li>• Create a student table with the student id, name, and marks as attributes where the student id is the primary key.</li> <li>• Add a new column in the above table.</li> <li>• Modify the details of a particular column</li> <li>• Delete a particular column</li> <li>• Insert the details of a new student in the above table.</li> <li>• Delete &amp; update the details of a particular student in the above table.</li> <li>• Use the select command to manipulate data.</li> <li>• Create a new table (name, date of birth) by joining two tables (student id, name) and (studentid, date of birth).</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment               <ul style="list-style-type: none"> <li>○ Python Programming</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Core Skills               <ul style="list-style-type: none"> <li>○ Problem solving</li> <li>○ Critical thinking</li> <li>○ Creative thinking</li> <li>○ Decision making</li> </ul> </li> </ul>
<b>November</b> <b>Topic:</b> Data Management	<ul style="list-style-type: none"> <li>➤ Aggregate functions – MIN, MAX, AVG, COUNT, SUM</li> <li>➤ Basics of NoSQL databases.</li> </ul>		

Month/Topic	Theory	Practical/Project	Miscellaneous
		<ul style="list-style-type: none"> <li>• Create a new table (order ID, customer Name, and order Date) by joining two tables (order ID, customer ID, and order Date) and (customer ID, customer Name, contact Name, country).</li> <li>• Show details from two tables</li> <li>• Delete the structure of a table.</li> </ul>	
<p><b>December</b>  <b>Topic:</b> Society, Law and Ethics – Cyber safety</p>	<ul style="list-style-type: none"> <li>➤ Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying</li> <li>➤ Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules.</li> <li>➤ Safely accessing web sites: adware, malware, viruses, Trojans</li> <li>➤ Safely communicating data: secure connections, eavesdropping, phishing and identity verification.</li> </ul>		<ul style="list-style-type: none"> <li>• Assignment <ul style="list-style-type: none"> <li>○ Cyber Safety</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> <li>• Video <ul style="list-style-type: none"> <li>○ Cyber Safety</li> <li>○ Usage of Social Networking</li> <li>○ Malware, Virus, Trojans etc.</li> <li>○ Phishing</li> </ul> </li> <li>• Core Skills <ul style="list-style-type: none"> <li>○ Self-awareness</li> <li>○ Interpersonal relationship</li> <li>○ Empathy</li> </ul> </li> </ul>
<b>January</b>	<b>Revision</b>		
<b>February</b>	<b>Revision</b>		
<b>February</b>	<b>Annual Examination</b>		

**DELHI PUBLIC GLOBAL SCHOOL**  
**ANNUAL PEDAGOGICAL PLAN FOR**  
**ECONOMICS (2024-25) CLASS – XI**

MONTHS	CHAPTER	LEARNING OBJECTIVES	ACTIVITY/INNOVATIVE PEDAGOGY	LEARNING OUTCOMES
APRIL	<p><b>Statistics for Economics</b></p> <p>What is Economics Meaning, Scope, Functions and Importance of Statistics Collection of Data</p> <p><b>Introductory Micro Economics</b> Introduction</p>	<p>To enable the students to –</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Understand the basic nature of the Subject of Economics.</li> <li><input type="checkbox"/> Understand the meaning, definition, content, scope and nature of statistics.</li> <li><input type="checkbox"/> Understand the nature of data according to source</li> <li><input type="checkbox"/> Analysing the method of primary data collection</li> </ul> <ul style="list-style-type: none"> <li><input type="checkbox"/> Know the meaning of Micro Economics</li> <li><input type="checkbox"/> Know the meaning &amp; types of Central problem.</li> <li><input type="checkbox"/> Know the concept of Opportunity cost</li> </ul>	<p><b>Prediction of the economic future of the country through poster making competition</b></p> <ul style="list-style-type: none"> <li>➤ Assignments- Introduction to microeconomics</li> <li>➤ Initiating collection of data on the basis of methods learnt</li> </ul> <ul style="list-style-type: none"> <li>➤ Smart class Module: What is an economy, statistics and economy</li> <li>➤ Referring to real data of NSO</li> </ul>	<p>Students would understand the –</p> <ul style="list-style-type: none"> <li>➤ Functions and application of statistical tools.</li> <li>➤ Importance of statistics for various sections of society</li> <li>➤ Limitations of statistics and cases of mistrust</li> <li>➤ The nature and methods of collection of data and its application in real life</li> <li>➤ The Concept of PPC</li> <li>➤ Characteristics, Shifts and Applications of PPC</li> <li>➤ Concept of Opportunity Cost and its application</li> <li>➤ Understand the concept of Opportunity cost and Marginal opportunity cost</li> </ul>

<p><b>MAY</b></p>	<p><b>Statistics for Economics</b></p> <p>Collection of Data</p> <p><b>Introductory Microeconomics</b></p> <p>Consumer's Equilibrium and Demand</p>	<p><u>To enable the students –</u></p> <ul style="list-style-type: none"> <li>➤ Analyse the method of Primary data collection</li> <li>➤ Know about the various methods of random &amp; non random sampling</li> <li>➤ Advantages and disadvantages of primary and secondary data</li> </ul> <p>Explain the Concept of Consumers Equilibrium through cardinal approach -Explain the Law of Diminishing Marginal Utility</p>	<ul style="list-style-type: none"> <li>➤ Reference to data from Census and NSSO</li> <li>➤ Project on collection of some data by each student from a primary source and from a secondary source</li> <li>➤ Students are also encouraged to read newspapers and magazines. Many a day the last 10 minutes of class are spent in discussing any terminology, ideas or views that students may not have understood. Further, newspapers offer opinions on curriculum related topics which can be used as a basis or tool to facilitate discussions on a given topic. Newspaper and magazine articles make very good case studies (discussed later) when they are without any opinions and views.</li> </ul>	<p>Students would understand the –</p> <ul style="list-style-type: none"> <li>➤ The nature and methods of collection of data and its application in real life</li> <li>➤ Understand that conditions of consumer equilibrium</li> <li>➤ Nature of primary data &amp; secondary data</li> </ul> <p>Understand the difference between Random and Non random sampling</p> <p>☐ Nature of sampling Errors</p>
<p><b>JULY</b></p>	<p><b>Introductory Microeconomics</b></p>	<p>To enable the Students to know –</p>	<ul style="list-style-type: none"> <li>➤ <b>Assignment</b> – ordinal approach, demand and elasticity of demand.</li> </ul>	<p>Students would understand the –</p>

	<p>Consumer's Equilibrium and Demand</p> <p><b>Statistics for Economics</b></p> <p>Organisation of Data</p>	<ul style="list-style-type: none"> <li>□ <b>Concept of Indifference Curve Analysis</b></li> <li>□ <b>The concept of budget line and budget constraint</b></li> <li>□ <b>Concept of Consumer's Equilibrium</b></li> <li>□ Elaborate the concept of Elasticity of Demand</li> <li>□ Concept of elasticity of demand and use of percentage method.</li> <li>□ Know the concepts of Demand and its determinants and Types of goods: Normal and inferior goods.</li> <li>□ Differentiate between different types of series</li> <li>□ Concept of exclusive and inclusive series</li> </ul>	<ul style="list-style-type: none"> <li>□ <b>Role play to show and enact preference of consumers for one product over the other- in regular times and during sale times.</b></li> <li>□ Raw data to be organized into various types of series, group discussion on usage of sampling method</li> <li>➤ Smart class Module: Indifference Curve analysis, organization of data</li> <li>➤ <b>Peer- Teaching and Learning:</b> Students teaching each other in a variety of ways is another strategy to enhance learning. Some of the ways through which students learn from each other</li> </ul>	<ul style="list-style-type: none"> <li>➤ Consumer Equilibrium conditions in case of one good &amp; two goods</li> <li>➤ Understanding the significance of indifference curves</li> <li>➤ Understanding the reason behind downward sloping budget line</li> <li>➤ The role of budget line and its application in everyday life</li> <li>➤ Understand the usage concept of Elasticity of Demand in Business</li> <li>➤ Concept of universe and sample</li> </ul>
<p><b>AUGUST</b></p>	<p><b>Statistics for Economics</b></p> <p>Tabular Presentation</p> <p>Diagrammatic and Graphic Presentation</p>	<p>To enable the students to –</p> <ul style="list-style-type: none"> <li>□ Understand the objectives to prepare a table and its application in project reports</li> <li>□ Know about parts of a table.</li> <li>□ <b>Various ways of presenting the data diagrammatically and with the help of types of bar Diagrams and graphical presentation</b></li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Assignments</b> – tabulation, diagrammatic and graphical presentation</li> <li>Assignments- production function</li> <li><b>Diagrammatic and graphic presentation of 'The impact of Covid-19 on Tourism, hospitality and Entertainment industry'.</b></li> </ul>	<p>Students would understand the –</p> <ul style="list-style-type: none"> <li>➤ Relevance of various types of diagrams and graphs</li> <li>➤ Understand the meaning &amp; definition of various concepts and key terms in diagrammatic and graphical presentation</li> <li>□ Know the meaning of production function</li> </ul>

	<p>Measures of Central Tendency – Arithmetic Mean</p> <p><b>Introductory Microeconomics</b></p> <p>Producers' Behaviour and Supply</p>	<ul style="list-style-type: none"> <li>➤ Meaning of arithmetic mean and weighted mean, along with their computations.</li> </ul> <p>Application of various methods to calculate mean (direct, short cut, step deviation)</p> <ul style="list-style-type: none"> <li>➤ Differentiate between stock and supply</li> <li>➤ State and explain Law of supply and factors affecting supply.</li> <li>➤ Know the meaning of production function</li> <li>➤ Importance and concept of Law of Variable Proportion</li> </ul>		<ul style="list-style-type: none"> <li>➤ Differentiate between long run and short run</li> <li>➤ The phases of law of variable proportion with the help of TP &amp; MP</li> <li>➤ Compiling the situation where law of variable proportion is applied in everyday life.</li> </ul> <p>Application of measures of Central Tendency in everyday life.</p> <p>Application of Averages in industry and business</p>
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<p><b>SEPTEMBER</b></p>	<p><b>Statistics for Economics</b></p> <p>Measures of Central Tendency – Arithmetic Mean</p>	<p>To enable the students to understand the –</p> <ul style="list-style-type: none"> <li>➤ Meaning of arithmetic mean and weighted mean, along with their computations.</li> </ul> <p>Application of various methods to calculate mean</p>	<ul style="list-style-type: none"> <li>➤ <b>Smart Class Module- Mean ( Exercises)</b></li> </ul> <p><b>Project based learning:</b> I believe that we are all well versed with project work in Economics and its advantages in delivering content. Under the project based learning approach, students are given a real world situation which they analyse and present using their academic knowledge and creativity. Project work takes the central ideas of a topic beyond the academic curriculum.</p>	<p>To enable the students to understand the –</p> <ul style="list-style-type: none"> <li>➤ Meaning of arithmetic mean and weighted mean, along with their computations.</li> </ul> <p>Application of various methods to calculate mean</p>
<p><b>OCTOBER</b></p>	<p><b>Statistics for Economics</b></p> <p>Measures of Central Tendency – Median and Mode</p> <p>Measures of Dispersion</p>	<p>To enable the students to understand the –</p> <ul style="list-style-type: none"> <li>➤ Application of Mode and Median in different types of situations</li> <li>➤ Numerical Computation of Median in different types of series</li> <li>➤ Application of Partitional value</li> <li>➤ Application of Mode and its computation by Grouping Method and Analysis Table Method</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Smart Class Module:</b> Measures of Central Tendencies ( Median and Mode)</li> </ul>	<p>Students would understand the –</p> <ul style="list-style-type: none"> <li>➤ Application of positional averages (Median) in different spheres of life.</li> </ul>

	<p><b>Introductory Microeconomics</b></p> <p>Producer's Behaviour and Supply Costs</p>	<ul style="list-style-type: none"> <li>➤ Meaning of dispersion and its measures (both absolute and relative)</li> <li>➤ Learning the concept of cost in economics producers and differentiating between fixed and variable cost, implicit and explicit cost. Relation between different kind of costs.</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Pair Learning:</b> This strategy is particularly effective when revision needs to be undertaken before an examination. For instance, in order to revise the different equilibria studied in microeconomics – consumer, producer and market</li> </ul>	<p>Apply the concepts of Cost in Everyday Life. Application of Fixed Costs and Variable Costs in everyday life.</p>
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<p><b>NOVEMBER</b></p>		<p>To enable the students to-</p> <ul style="list-style-type: none"> <li>➤ Learn diagrammatic depiction of revenue concepts and the trends in schedules</li> </ul> <p><b>Concept of GST- Goods and Services tax</b></p>	<ul style="list-style-type: none"> <li>➤ <b>Smart Class Module</b></li> <li>➤ <b>Peer- Teaching and Learning:</b> Students teaching each other in a variety of ways is another strategy to enhance learning</li> </ul> <p><b>Integrating it with art of exhibiting through Nukkad natak- Its impact.</b></p>	
<p><b>DECEMBER</b></p>	<p><b>Introductory Microeconomics</b> Forms of Market</p>	<p>To enable the students to understand the –</p> <ul style="list-style-type: none"> <li>➤ Understand the concept of different types of market structure</li> <li>➤ To compare and contrast the different features of perfect and imperfect market forms</li> <li>➤ Differentiate between product differentiation and price differentiation</li> <li>➤ Know about the difference in the revenue curves of perfect competition</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Assignment:</b> Application based questions on Market Forms</li> <li>☐</li> <li>➤ Discussion on real examples of Various Market Forms</li> </ul>	<p>Students would understand the –</p>

<p><b>JANUARY</b></p>	<p><b>Introductory</b> <b>Microeconomics</b> Price Determination</p>	<p>To enable students to understand</p> <ul style="list-style-type: none"> <li>➤ Dynamics of changes in the equilibrium price and quantity</li> </ul> <p>Concept of rationing and minimum support price.</p>	<p>The economics behind the great cricket game- The IPL- Identifying and the decision behind choosing the players , teams , the pricing of the tickets and the number of games per year..</p> <p><b>Assignments</b> - Price determination and application of Index numbers.</p> <ul style="list-style-type: none"> <li>➤ <b>Smart Class Module-</b> Market Equilibrium, price control Policies and Index Numbers</li> <li>➤ <b>Wall magazine:</b> Another way of asking children to read and present content is through a wall magazine. Again this task allows students to display their creative skills in displaying the content. It builds team spirit and makes learning enjoyable.</li> </ul>	<p>Students would understand the –</p> <ul style="list-style-type: none"> <li>➤ Changes in equilibrium price and quantity due to changes in factors affecting demand and supply.</li> <li>➤ Chain reaction under different situations of dynamics of equilibrium</li> <li>➤ Application of price ceiling and price flooring by the Government</li> </ul>
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## ANNUAL PLANNER- ENGLISH CLASS XI

Session 2023-24

Month/Topic	Specific Objective	Methodology/ Discussion	Assignment Listening, Speaking, Learning and Writing	Learning Outcome
<b>JULY</b> The Portrait of a Lady	– To enable the students to i) develop cooperation, care and concern, Tolerance, Respect, Acceptance, Responsibility ii) be independent in thought and action iii) understand the feelings of parents and grandparents iii) face adverse situation calmly	- To enable the students i) to know the expressions used in the lesson and their usage ii) to understand the use of past perfect tense (ii) to strengthen the family bonds by accepting the situation	Present a pen picture of your grandparents describing their qualities you admire and appreciate the most.	Students will be able to know i) to improve working relations and respect for identities in relation to other people ii) to accept and manage the situations with patience and tolerance iii) to respect the relations in the family.
<b>JULY</b> The Photograph	-To enable the students to i) to inculcate values like learn from experience, care and share, love, affection and togetherness. ii) understand that time and tide wait for none. iii) change is the harsh and bitter reality of life.	To enable the students to i) read with proper voice intonation and pauses. ii) comprehend the poem. iii) identify the figures of speech.	Read out a poem on a similar theme/ discuss an incident/ describe an old mounted photograph.	The students will be able to i) understand the importance of human relationship. ii) understand child psychology. iii) understand the attachment with family members.
<b>JULY</b> Ailing Planet	To enable the students to i) value the natural	To enable the students to i) understand the	A debate on ‘Law and Order in India’	The students will be able to understand the

	<p>resources</p> <p>ii) make the best use of the resources and able to retain them for the future generation.</p> <p>iii) analyse the grave situation of the planet Earth.</p>	<p>ecological situation of the Earth.</p> <p>ii) understand the issues regarding the declining health of the Earth continue to have relevance even today.</p> <p>iii) understand and gain knowledge - *the Green Movement –Earth a Living Organism</p>		<p>i) issues of the decline state of Mother Earth and sustainable development.</p> <p>ii) best use of resources.</p> <p>iii) awareness to save and protect the environment.</p>
<p><b>JULY</b> Notice Writing</p>	<p>To enable the students to The students will be able to</p> <p>i) inculcate values like share ideas, freedom to express and acceptance of ideas.</p> <p>ii) make use of appropriate formats, expressions and vocabulary.</p> <p>iv) appreciate the skill of expressing and writing effectively.</p>	<p>i) Guide and motivate students to express and write effectively.</p> <p>ii) Develop knowledge and purpose of writing an article and speech.</p> <p>iii) Awareness of the form, content and process of writing.</p>	<p>Different topics to give for Notice Writing practice</p>	<p>i) Guide the students to write effectively.</p> <p>ii) Spread awareness</p> <p>iii) To write in formal tone, to be precise and to the point.</p>
<p><b>AUGUST</b> Summer Of A Beautiful White Horse</p>	<p>To enable the students to</p> <p>i) inculcate the values of respecting one’s belief, honesty, confession, truth, faith, and sharing responsibility</p> <p>ii) show honesty and undo wrong doings</p>	<p>To enable the students to</p> <p>i) read and understand in between the lines</p> <p>ii) to appreciate humour in the story</p> <p>iii) express views clearly</p>	<p>(a)Rearrange the sentences to complete the story based on a similar theme.</p> <p>(b)Describe qualities of a horse</p>	<p>The students will be able to</p> <p>i) enhance vocabulary</p> <p>ii) enjoy humour</p> <p>iii) inculcate values like honesty, trust, responsibility etc</p>

	iii) understand stealing is a crime			
<b>AUGUST</b> We're not Afraid to Die	To enable the students to i) imbibe perseverance and patience, trust, self reliance and self confidence, positivity, team work ii) realise that courage and determination can overcome all the challenges iii) understand that presence of mind along with the practical knowledge is important to take instant decisions	To enable the students i)to know the expressions and phrasal verbs used in the lesson and their usage ii) to enhance and enrich the vocabulary	Optimism helps to endure the direst stress. Discuss.	The students will be able to i) learn the parts of ship and different terms/words related to voyage ii) understand the expressions and phrasal verbs used in the lesson and their usage
<b>AUGUST</b> Formal Letters, Business Letters, Letter to the Authorities, Posters	The students will be able to i) inculcate values like share ideas, freedom to express and acceptance of ideas. ii) make use of appropriate formats, expressions and vocabulary. iii) write formal letters, articles, speech, debate , reports and other short writing skills.	i) Guide and motivate students to express and write effectively. ii) Develop knowledge and purpose of writing an article and speech. iii) Awareness of the form, content and process of writing.	Different topics to give for practice	i) Guide the students to write effectively. ii) Develop and strengthen business relations, enquiries, registering complaints, placing orders, sending replies, apply for a job. iii) Letter to school authorities regarding admission, school issues, requirements and suitability
<b>SEPTEMBER</b> Revision- Half Yearly Exams				

<p><b>OCTOBER</b> Article, Speech, Note making</p>	<p>The students will be able to i) inculcate values like share ideas, freedom to express and acceptance of ideas.- ii) make use of appropriate formats, expressions and vocabulary. iii) write formal letters, articles, speech, debate , reports and other short writing skills.</p>	<p>i) Guide and motivate students to express and write effectively. ii) Develop knowledge and purpose of writing an article and speech. iii) Awareness of the form, content and process of writing.</p>	<p>Different topics to give for practice</p>	<p>i) Guide the students to write effectively. ii) Develop and strengthen business relations, enquiries, registering complaints, placing orders, sending replies, apply for a job. iii) Letter to school authorities regarding admission, school issues, requirements and suitability.</p>
<p><b>OCTOBER</b> The Address</p>	<p>To enable the students to i) read effectively with proper voice modulation. ii) comprehend the chapter. iii) enhance their vocabulary.</p>		<p>To enable the students – i) to inculcate values like courage, empathy, sensitivity, critical thinking and maintaining relations. ii) to learn from past experiences. iii) to understand to forget the past and move ahead in life</p>	<p>Sharing experience about the significance of articles/memories/people.</p>
<p><b>OCTOBER</b> Discovering Tut</p>	<p>To enable the students to i)inculcate the values of concern, responsibility, curiosity and respect ii)Respect other's beliefs, customs, rituals iii)Feel pride in using technology to unfold the</p>	<p>To enable the students to i) understand, enjoy and appreciate a factual text ii)understand the meaning and usage of phrases like resurrection, circumvented, computed Tomography, scudded</p>	<p>Draw a flow chart to draw King Tut's Family line and their description</p>	<p>The Students will be able to i)Think, analyse and observe ii)Know the meanings of new phrases iii)Satisfy their curiosity about King Tut's</p>

	mysteries	across etc iii) understand advancement in technology		mummy
<b>OCTOBER</b> Voice Of The Rain	To enable the students to i) understand rain as the life giving force on the earth ii) nurture the plants by taking care of the environment iii) understand the importance of saving resources	i) to understand the cyclic movement of rain ii) to know the role of plants in getting rain iii) to identify the two voices in the poem	i) What is water cycle ? How is the cycle getting disturbed? ii) What is the similarity between rain and music?	The students will be able to i) inculcate values like care and concern to save environment ii) develop imaginative and analytical skills iii) realise the importance of saving natural resources
<b>NOVEMBER</b> Ranga's Marriage	To enable the students – i) to inculcate values like courage, togetherness, empathy, appreciation, sensitivity and critical thinking. ii) to create a balance between tradition and Western culture. iii) to understand that tradition is deep rooted in our culture	To enable the students to i) read effectively with proper voice modulation. ii) comprehend the chapter. iii) enhance their vocabulary.	Discussion on Importance of traditions followed in India.	The students will be able to i) analyse that the ideas of Ranga about marriage seem apparently quite different but with the passage of time one realizes that he is inherently just like another person in the village. ii) realise the influence of the English language and Western culture in villages. iii) understand that the story brings out the conflict between tradition and modernity and shows

				how tradition is deep-rooted in our culture.
<b>NOVEMBER</b> 1)Report Writing 2)Invitations and Replies	The students will be able to- i) inculcate values like share ideas, freedom to express and acceptance of ideas. ii) make use of appropriate formats, expressions and vocabulary. iii) write formal letters, articles, speech, debate , reports and other short writing skills.	i)Guide and motivate students to express and write effectively. ii) Develop knowledge and purpose of writing an article and speech. iii) Awareness of the form, content and process of writing.	Different topics to give for practice	i) Guide the students to write effectively. ii) Spread awareness iii) To write in formal tone, to be precise and to the point.
<b>NOVEMBER</b> Mother's Day	To enable the students to i) imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance ii) understand the struggles and sacrifices of parents and to draw inspiration from them iii) strengthen the family bonding with sharing and solving problems	To enable the students i) to perceive the overall meaning and organisation of the text ii) to identify and understand the central/main point and supporting details along with the phrases used in the lesson iii) to promote advanced language skills with an aim to develop the skills of reasoning and drawing inferences	Is drama a good medium for conveying a social message? Discuss	Students will be able i) to know that mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation ii) to strengthen the family bonding with sharing and solving problems iii) to develop analytical skills, thinking skills, decision making, management skills, logical skills
<b>DECEMBER</b>	To enable the students to	To enable the students to	i) What do you usually	The Students will be able

Browning Version	<ul style="list-style-type: none"> <li>i) inculcate the values of respecting teachers, mankind, sense of duty, punctuality and appreciation</li> <li>ii) acquire proper mannerism and attitude</li> <li>iii) owe respect towards their teachers</li> </ul>	<ul style="list-style-type: none"> <li>i) take role play and learn to deliver their part with appropriate voice modulation, stress and intonation</li> <li>ii) understand, enjoy and appreciate plays</li> <li>iii) enhance vocabulary</li> </ul>	<ul style="list-style-type: none"> <li>talk about teachers among friends?</li> <li>ii) What manner do you adopt when you talk to your teacher?</li> <li>iii) Role Play: will be done</li> </ul>	<ul style="list-style-type: none"> <li>to</li> <li>i) enhance vocabulary</li> <li>ii) know how to take role play</li> <li>iii) learn how to display mannerism and attitude towards others</li> </ul>
<b>DECEMBER</b> Childhood	<ul style="list-style-type: none"> <li>To enable the students</li> <li>i) to inculcate the values of accepting differences, understanding people, becoming sensible, valuing childhood and freedom</li> <li>ii) develop individuality</li> <li>iii) search for and gain innocence like a child</li> </ul>	<ul style="list-style-type: none"> <li>To enable the students to</li> <li>i) understand, enjoy and appreciate different genre of English writings</li> <li>ii) Enhance vocabulary</li> <li>iii) Have better understanding of rhyme scheme and other poetic devices</li> </ul>	Discuss: Is attainment of maturity a sigh of loss of innocence?	<ul style="list-style-type: none"> <li>The students will be able to</li> <li>i) Think, analyse and observe</li> <li>ii) Know how to identify rhyme scheme</li> <li>iii) Gain individuality</li> </ul>
<b>DECEMBER</b> Albert Einstein	<ul style="list-style-type: none"> <li>To enable the students to</li> <li>i) have respect for teachers</li> <li>ii) be truthful</li> <li>iii) accept and respect differences</li> </ul>	<ul style="list-style-type: none"> <li>To enable the students</li> <li>i) to comprehend the text</li> <li>ii) to learn/enrich vocabulary and its usage</li> <li>iii) to hone speaking and writing skills</li> </ul>	<ul style="list-style-type: none"> <li>i) Express your views on prevailing system of education</li> <li>ii) Do you think that the teacher's role should be primarily to make students think?</li> <li>iii) Incidents from the life of the great scientist</li> </ul>	<ul style="list-style-type: none"> <li>The students will be able to</li> <li>1. gain insight into the attitude of various teachers towards Einstein</li> <li>2. know about Einstein's nature based on his conversation with various teachers</li> <li>3. understand the difference between information gathering and insight formation</li> </ul>
<b>DECEMBER</b>	To enable the students to	To enable the students to	Class room discussion	The students will be able

<p>Birth</p>	<p>i) inculcate values like respect, being responsible, work for excellence, time management, commitment and determination, care and concern, humility, optimism, helping and tolerance. ii) never to lose hope iii) use of practical knowledge</p>	<p>i) read effectively with proper voice modulation. ii) comprehend the chapter. iii) enhance their vocabulary</p>	<p>based on- - Advancements in Medical Science. -Sharing of experiences and knowledge based on situations, news, articles, movies etc. -Noble profession of doctors and service to mankind.</p>	<p>to i) understand the sense of duty. ii) appreciate and accept the selfless service to mankind. iii) realise and create a balance between the knowledge gained and practical approach.</p>
<p><b>DECEMBER</b> Advertisement</p>	<p>The students will be able to i) inculcate values like share ideas, freedom to express and acceptance of ideas. ii) make use of appropriate formats, expressions and vocabulary. iii) write short writing skills.</p>	<p>i) Guide and motivate students to express and write effectively. ii) Develop knowledge and purpose of writing advertisements. iii) Awareness of the form, content and process of writing.</p>	<p>Different topics to give for practice</p>	<p>i) Guide the students to write effectively. ii) Spread awareness iii) To write in formal tone, to be precise and to the point.</p>
<p><b>JANUARY</b> Father To Son</p>	<p>To enable the students to i) to inculcate the values of accepting differences, understanding people, respecting elders ,peace and happiness, resolving conflicts, sincerity and perseverance, valuing</p>	<p>To enable the students to i) cultivate interest and appreciate poetry and develop the ability of reading with proper stress and intonation ii) prepare the students for poetic forms and</p>	<p>Students will be asked to enter into a debate about generation gap.</p>	<p>The students will be able to i) Comprehend and appreciate poetry ii) Learn new words iii) Enhance understanding of literary devices</p>

	relations and self realization ii) develop social skills iii) manage relations	adept them with the figures of speech, rhyme and rhythm iii) develop the ability of appreciation of ideas		
<b>JANUARY</b> Tale of Melon City	To enable the students to i) inculcate values like social connect, trust, co-operation, confidence, faith, respect and integrity, ability to fight against all odds. ii) analyse situations and take appropriate decisions. iii) not to make foolish decisions.	To enable the students to i) read with proper voice intonation and pauses. ii) comprehend the poem. iii) identify the figures of speech and the rhyming scheme.	Classroom discussions based on Examples of a kings and rulers.	The students will be i) aware of different situations and dealing them well. ii) realise that peace and liberty are the two strong factors for a state to flourish. iii) able to understand that the rulers of the state should be judicious and sensitive to the needs of the people.
<b>FEBRUARY</b> Revision – Final Examination				

**Curriculum Plan of Mathematics**  
(Session: 2024-2025)

Month Topic	Sub Topic	Concept/ Mathematics Activities	Assignment / Discussion
<b>April</b> <b>Topic:</b> Sets <b>No. of Periods:</b> 10	Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	<ul style="list-style-type: none"> <li>• To find the number of subsets of a given set and verify that if a set has n number of elements, then the total no. of subsets is <math>2^n</math>.</li> <li>• To verify that for two sets A and B, <math>n(A \times B) = pq</math> and the total no. of relations from A to B is <math>2^{pq}</math>, where <math>n(A) = p</math> and <math>n(B) = q</math>.</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment <ul style="list-style-type: none"> <li>○ Set-builder form, roster form, Venn diagrams, applications on union &amp; intersection of sets</li> <li>○ Domain, range and co-domain</li> <li>○ all trigonometric transformations, general solutions, domain-range, identities and various functions</li> </ul> </li> </ul>
<b>Topic:</b> Relations & Functions <b>No. of Periods:</b> 10	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $R \times R \times R$ ). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.	<ul style="list-style-type: none"> <li>• To distinguish between a Relation &amp; Function.</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> </ul>
<b>Topic:</b> Trigonometric Functions <b>No. of Periods:</b> 15	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$ , for all x. Signs of trigonometric functions. Deducing identities like the following: $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}, \cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$ $\sin \alpha \pm \sin \beta = 2 \sin \frac{1}{2}(\alpha \pm \beta) \cos \frac{1}{2}(\alpha \mp \beta)$ $\cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$ $\cos \alpha - \cos \beta = -2 \sin \frac{1}{2}(\alpha + \beta) \sin \frac{1}{2}(\alpha - \beta)$		

Month Topic	Sub Topic	Concept/ Mathematics Activities	Assignment
<b>May</b> <b>Topic:</b> Trigonometric Functions <b>No. of Periods:</b> 05	Identities related to $\sin 2x$ , $\cos 2x$ , $\tan 2x$ , $\sin 3x$ , $\cos 3x$ and $\tan 3x$ . General solution of trigonometric equations of the type $\sin y = \sin a$ , $\cos y = \cos a$ and $\tan y = \tan a$ . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$ , $\sin y$ , $\cos x$ & $\cos y$ and their simple applications.		<ul style="list-style-type: none"> <li>• Assignment <ul style="list-style-type: none"> <li>○ Principle of Mathematical Induction</li> <li>○ Argument, modulus and polar form of complex numbers, &amp; quadratic equations of imaginary nos.</li> <li>○ graphical representation of linear inequalities</li> <li>○ Permutations and Combinations</li> <li>○ Binomial Theorem, its expansion and rth term</li> </ul> </li> <li>• Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> </ul>
<b>Topic:</b> Principle of Mathematical Induction <b>No. of Periods:</b> 05	Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.		
<b>Topic:</b> Complex Numbers and Quadratic Equations <b>No. of Periods:</b> 15	Need for complex numbers, especially $\sqrt{-1}$ , to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system. Square root of a complex number.	<ul style="list-style-type: none"> <li>• To interpret geometrically the meaning of <math>i = \sqrt{-1}</math> and its integral power.</li> </ul>	
<b>Topic:</b> Linear Inequalities <b>No. of Periods:</b> 10	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables.	<ul style="list-style-type: none"> <li>• To verify that the graph of a given inequality, say <math>5x + 4y - 40 &lt; 0</math>, of the form <math>ax + by + c &lt; 0</math>, <math>a, b &gt; 0</math>, <math>c &lt; 0</math> represents only one of the two half planes.</li> </ul>	
<b>July</b> <b>Topic:</b> Permutations and Combinations <b>No. of Periods:</b> 10	Fundamental principle of counting. Factorial $n$ . ( $n!$ ) Permutations and combinations, derivation of Formulae for $n_{pr}$ and $n_{cr}$ and their connections, simple applications.	<ul style="list-style-type: none"> <li>• To find the number of ways in which three cards can be selected from given five cards.</li> </ul>	
<b>Topic:</b> Binomial Theorem <b>No. of Periods:</b> 10	History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.	<ul style="list-style-type: none"> <li>• To construct a Pascal's triangle and to write binomial expansion for a given positive integral exponent.</li> </ul>	

Month Topic	Sub Topic	Concept/ Mathematics Activities	Assignment
<b>Topic:</b> Sequence and Series <b>No. of Periods:</b> 20	Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. Formulae for the following special sums. $\sum_{k=1}^n k, \sum_{k=1}^n k^2 \text{ and } \sum_{k=1}^n k^3$	<ul style="list-style-type: none"> <li>To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.</li> </ul>	<ul style="list-style-type: none"> <li>Assignment <ul style="list-style-type: none"> <li>Straight Lines</li> <li>Conic Sections</li> <li>A.P., A.M., G.P., G.M., relation between A.M. &amp; G.M. and applications of sequences</li> <li>Slope, tangent, normal, various forms of slope of a line</li> <li>Parabola, Circle, Ellipse, Hyperbola and their applications</li> </ul> </li> <li>Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> </ul>
<b>August</b> <b>Topic:</b> Straight Lines <b>No. of Periods:</b> 20	Brief recall of two dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.		
<b>Topic:</b> Conic Sections <b>No. of Periods:</b> 15	Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	<ul style="list-style-type: none"> <li>An alternating method to construct a parabola.</li> <li>To construct an ellipse using a rectangle.</li> </ul>	
<b>September</b>	<b>Half Yearly Examination</b>		
<b>October</b> <b>Topic:</b> Introduction to Three-dimensional Geometry <b>No. of Periods:</b> 10	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.	<ul style="list-style-type: none"> <li>To explain the concept of octants by three mutually perpendicular planes in space</li> </ul>	<ul style="list-style-type: none"> <li>Assignment <ul style="list-style-type: none"> <li>octants, distance formula and section formula in 3-D</li> </ul> </li> <li>Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> </ul>

<b>Month Topic</b>	<b>Sub Topic</b>	<b>Concept/ Mathematics Activities</b>	<b>Assignment / Discussion</b>
<b>Topic:</b> Limits and Derivatives <b>No. of Periods:</b> 15	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.	<ul style="list-style-type: none"> <li>To find analytically <math>\lim_{x \rightarrow c} \frac{x^2 - c^2}{x - c}</math></li> <li>Verification of the geometrical significance of derivative</li> </ul>	<ul style="list-style-type: none"> <li>Assignment <ul style="list-style-type: none"> <li>Limits, indeterminate form, derivatives of trigonometric functions, first principle, properties of derivatives</li> <li>basic Mathematical Reasoning</li> <li>Mean Deviation, median deviation, mode and frequency distribution</li> <li>Probability</li> </ul> </li> <li>Discussion of Scoring Points/ Marking Scheme/ Sample Questions</li> </ul>
<b>Topic:</b> Mathematical Reasoning <b>No. of Periods:</b> 10	Mathematically acceptable statements. Connecting words/ phrases - consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words, difference among contradiction, converse and contrapositive.	<ul style="list-style-type: none"> <li>To obtain truth values of compound statements of the type <math>p \vee q</math> by using switch connections in parallel</li> </ul>	
<b>November Topic:</b> Statistics <b>No. of Periods:</b> 20	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.		
<b>Topic:</b> Probability <b>No. of Periods:</b> 15	Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	<ul style="list-style-type: none"> <li>To write the sample space, when a coin is tossed once, twice, three times, four times.</li> </ul>	
<b>December</b>	<b>Periodic Test - 2</b>		
<b>January</b>	<b>Revision</b>		
<b>February</b>	<b>Annual Examination</b>		

# EXAMINATION SYLLABUS

## **PERIODIC TEST – 1**

- Trigonometric Functions
- Sets
- Relations & Functions

## **HALF YEARLY EXAMINATION**

- Trigonometric Functions
- Sets
- Relations & Functions
- Complex Numbers & Quadratic Equations
- Linear Inequalities
- Sequences & Series

## **PERIODIC TEST - 2**

- Permutations & Combinations
  
- Probability

## **ANNUAL EXAMINATION**

Full Syllabus

**NOTE:** There will be a class test after every chapter.

**Annual Pedagogical Plan**  
**Subject -Physical Education (048)**  
**Class XI**  
**Session 2024-25**

<b>Month / Topic</b>	<b>Theory</b>	<b>Practical / Project</b>	<b>Miscellaneous</b>
<b>July</b> Topic Changing Trends & Career in physical Education	<ul style="list-style-type: none"> <li>• Meaning &amp; definition of physical education.</li> <li>• Aims &amp; objectives of physical education.</li> <li>• Career option in physical education</li> <li>• Competition in various sports at National and international level</li> <li>• Khelo India Program</li> </ul>	<ul style="list-style-type: none"> <li>• Students shall make a list of career options in sports.</li> <li>• Students shall make a list of objectives of khelo India program.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>EBSB:</b> Students shall participate in Khelo India program</li> <li>• <b>Joyful learning Method</b> : Students shall take participate in various sports tournaments conducted by district Sports department and CBSE cluster.</li> <li>• <b>Experiential Learning Procedure</b> : Find out the various physical education courses in India.</li> </ul>
<b>August</b> Topic Olympic Value Education.	<ul style="list-style-type: none"> <li>• Olympics, Paralympics, and special Olympics.</li> <li>• Olympic Symbol, ideals, Objectives &amp; values of Olympism.</li> <li>• International Olympic Committee.</li> <li>• Indian Olympic Association.</li> </ul>	<ul style="list-style-type: none"> <li>• Students shall make a list of Indian athletes who have won medal in Olympics as well as in other international games.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Art Integrated Activities</b> : Make flag of international Olympics committee .</li> <li>• <b>Joyful Learning Method</b> : some motivation videos will be shown to the students of Paralympics , special Olympic and Olympics .</li> </ul>

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<p><b>September.</b> Topic Physical Fitness, Wellness and Lifestyle.</p> <p><b>October.</b> Topic Physical Education and Sports for CWSN.</p>	<ul style="list-style-type: none"> <li>• Meaning &amp; Importance of physical fitness, wellness &amp; lifestyle.</li> <li>• Components of Physical Fitness and wellness</li> <li>• Components of health related Fitness.</li> <li>• Aims and objectives of adaptive physical education</li> <li>• Organization promoting adaptive sports ( special Olympics Bharat, Paralympics, Deaflympics)</li> <li>• Concept of Inclusion , its need and implementation.</li> <li>• Role of various professionals for children with special needs.</li> </ul>	<ul style="list-style-type: none"> <li>• Make a list of physical fitness, wellness and healthy lifestyle.</li> <li>• Make a list of all components of physical fitness.</li> <li>• Write down the role of physical education teacher speech therapist and special educator.</li> <li>• Write down the concept of inclusive education.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Joyful learning method</b> : visit students to the gym and tell them how they improve their Joyful strength, speed and flexibility.</li> <li>• <b>Experiential Learning procedure:</b> take students to the ground and ask them about some exercise by which they can improve their strength speed and flexibility.</li> <li>• <b>Experiential learning procedure</b> : what is inclusive education why do we need inclusive education ,write its importance.</li> <li>• <b>Joyful learning Method</b> : make some students phe teacher, physiotherapist speech therapist and special therapist of your class and ask them about their role in school.</li> </ul>
<p><b>November</b> Topic Yoga</p> <p><b>November</b></p>	<ul style="list-style-type: none"> <li>• Meaning and importance of Yoga</li> <li>• Elements of Yoga</li> <li>• Introduction -Asanas, Pranayam, Meditation &amp; yogic Kriyas.</li> <li>• Yoga for concentration &amp; related Asanas</li> <li>• Relaxation Techniques for Improving concentration.</li> <li>• Leadership Qualities &amp; Role</li> </ul>	<ul style="list-style-type: none"> <li>• Take all students to the ground along with the yoga mats and do some yoga Asanas with Surya Namskar.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Experiential Learning Procedure</b> : Ask students about some Yoga Asanas which help in relaxation &amp; obesity .</li> <li>• <b>Joyful learning Method</b> : Take students to the ground with yoga mats and do Sitali Pranayama and sitkari pranayama for meditation .</li> <li>• <b>EBSB</b> : All students shall take participate in world Yoga day .</li> <li>• <b>Joyful Learning Method</b> : Organize a tour of your class into the hilly areas and take students for some adventure sports like, River Rafting trekking and Mountaineering.</li> </ul>

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<p>Topic Physical activity and Leadership Training.</p>	<p>of a leader</p> <ul style="list-style-type: none"> <li>• Creating Leader through Physical education</li> <li>• Meaning ,objectives &amp; types of Adventure Sports</li> <li>• Mountaineering, Surfing and Paragliding</li> <li>• Safety measures to prevent sports injuries.</li> </ul>	<ul style="list-style-type: none"> <li>• Divide students into two groups and make two leader of those groups and ask the how they improve their groups.</li> </ul>	<ul style="list-style-type: none"> <li>• Students shall participate in school rally and share their experience about the leadership and its qualities.</li> <li>• <b>Story Telling Activities</b> : Tell some stories of good leader of our country and qualities of their leadership to the students of your class.</li> </ul>
<p>December</p>	<ul style="list-style-type: none"> <li>• Revision</li> </ul>	<ul style="list-style-type: none"> <li>• Revision</li> </ul>	<ul style="list-style-type: none"> <li>• Revision</li> </ul>
<p><b>January</b> Topic Test, Measurement and Evaluation.</p>	<ul style="list-style-type: none"> <li>• Define test Measurement &amp; Evaluation</li> <li>• Importance of test ,Measurement and Evaluation in sports.</li> <li>• Calculation of BMI &amp; Waist Hip Ratio.</li> <li>• Somato Types (Endomorphy,Mesomorphy &amp; Ectomorphy )</li> <li>• Measurement of health related fitness.</li> </ul>	<ul style="list-style-type: none"> <li>• Students shall take the data of their family member and calculate the BMI (Body Mass Index).</li> <li>• Ask students make a list of their family members and identify their body types.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Art Integrated Activities</b> : Ask Students to make a list of health related fitness measurement tools.</li> <li>• <b>Joyful Learning Method</b> : Students will measure height ,weight ,flexibility , blood pressure , fat , heartbeat , and strength of their classmates by using Anthropometric Tools.</li> </ul>
<p><b>January</b> Topic Fundamentals of Anatomy &amp; Physiology.</p>	<ul style="list-style-type: none"> <li>• Definition , Importance of Anatomy , Physiology &amp; Kinesiology.</li> <li>• Function of Skeleton system , Classification of Bones &amp; Types of Joints.</li> <li>• Properties and Functions of Muscles.</li> <li>• Function &amp; Structure of Respiratory system and circulatory system.</li> <li>• Equilibrium – Dynamic &amp;</li> </ul>	<ul style="list-style-type: none"> <li>• Take a sphygmomanometer and measure the blood pressure of your class mates.</li> <li>• Explain the Equilibrium by using seesaw and gymnastic bar.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Joyful learning method:</b> Measure the blood pressure of your class mates by using Sphygmomanometer.</li> <li>• <b>Experiential learning procedure</b> ; give example of various joints found in your body by using some tools.</li> <li>• Identify the point of Centre of gravity in different position of body while running, bending jumping and standing.</li> </ul>

	static and Centre of gravity and its application in sport.		
<b>February</b> Topic Psychology and Sports.	<ul style="list-style-type: none"> <li>• Psychology and sports psychology.</li> <li>• Growth and Development</li> <li>• Developmental characteristics at different stages of growth</li> <li>• Adolescence changes and their needs.</li> <li>• Problems of adolescence</li> <li>• Management of adolescence problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Explain the various stages of growth by using examples of your school children.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Joyful learning method</b> : explain the term growth and development by catching a small ball by running &amp; jumping.</li> <li>• <b>Art integrated Activities</b> : what are the special needs of Adolescence age write also about their problems and management.</li> </ul>
<b>February</b> Topic Training and Doping in Sports.	<ul style="list-style-type: none"> <li>• Meaning &amp; concept of sports training</li> <li>• Principle of sports training</li> <li>• Warming up &amp; limbering down.</li> <li>• Skill techniques &amp; styles.</li> <li>• Concept and classification of doping</li> <li>• Dealing with Alcohol and substances abuse.</li> </ul>	<ul style="list-style-type: none"> <li>• Make a chart paper for Drug abuse.</li> <li>• Make a poster for no smoking</li> <li>• Write the ill effects of Tobacco.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Joyful learning method</b> : Do some various exercises for limbering down and warming up.</li> <li>• <b>Experiential learning procedure</b> : how will you train yourself for the upcoming competition.</li> <li>• <b>EBSB</b> : organize a oath rally for world No Tobacco Day.</li> </ul>

MOHD ANVAR

PGT. PHYSICAL EDUCATION.

DPGS MORADABAD.

**DELHI PUBLIC GLOBAL SCHOOL**  
**Curriculum Plan of Political Science for Class XI (Session: 2024-2025)**  
**By: Habiba Maryam**

TOPIC	SUB-TOPIC	LEARNING OBJECTIVES	AUDIO-VISUAL INPUTS	ACTIVITIES
<b>JULY</b>				
<b>Chapter 1 Political Theory: An Introduction</b>	<ul style="list-style-type: none"> <li>What is Politics?</li> <li>What do we study in Political Theory?</li> <li>Putting Political Theory to Practice</li> <li>WHY SHOULD WE STUDY POLITICAL THEORY?</li> </ul>	<ul style="list-style-type: none"> <li>The objective of political theory is to train citizens to think rationally about political question and assess the political events of our time.</li> </ul>	Video <ul style="list-style-type: none"> <li>Different political parties in india.</li> </ul>	<b>RESEARCH WORK</b> <ul style="list-style-type: none"> <li>Find out about the ruling political party in the state and town you live in.</li> </ul>
<b>AUGUST</b>				
<b>Chapter 2 Freedom</b>	<ul style="list-style-type: none"> <li>THE IDEAL OF FREEDOM</li> <li>WHAT IS FREEDOM?</li> <li>The Sources of Constraints</li> <li>WHY DO WE NEED CONSTRAINTS?</li> <li>HARM PRINCIPLE</li> <li>NEGATIVE AND POSITIVE LIBERTY</li> <li>Freedom of Expression</li> </ul>	<ul style="list-style-type: none"> <li>The importance of freedom for individuals and societies.</li> <li>Difference between the negative and positive dimensions of freedom.</li> <li>Familiar by the term 'harm principle'.</li> </ul>	Video <ul style="list-style-type: none"> <li>Right to freedom enshrined in Indian Constitution.</li> <li>Real life illustration of Right to Freedom.</li> </ul>	<b>EXPERENTIAL LEARNING</b> <ul style="list-style-type: none"> <li>Talk to all the adult members of your family ask about the Freedom they face in their daily life.</li> </ul>
<b>Chapter 3 Equality</b>	<ul style="list-style-type: none"> <li>WHY DOES EQUALITY MATTER?</li> <li>WHAT IS EQUALITY?</li> <li>Equality of Opportunities</li> <li>Natural and Social Inequalities</li> <li>THREE DIMENSIONS OF EQUALITY</li> <li>HOW CAN WE PROMOTE EQUALITY?</li> </ul>	<ul style="list-style-type: none"> <li>What is equality? Why should we be concerned about this moral and political ideal?</li> <li>Does the pursuit of equality involve treating everyone the same way in every condition?</li> <li>How may we pursue equality and minimise inequality in different spheres of life?</li> </ul>	Video <ul style="list-style-type: none"> <li>Equality of Education irrespective of gender, caste, religion, creed, etc.</li> </ul>	<b>JOYFUL LEARNING</b> <ul style="list-style-type: none"> <li>Search for quotations from different religious scriptures that affirm the ideal of equality.</li> </ul>

		<ul style="list-style-type: none"> <li>• How do we distinguish between different dimensions of equality — political, economic and social?</li> </ul>		<p>Read these in the classroom.          Make a list of all the social and economic inequalities that you notice among the students of your own school.          Make a list of all the facilities that students with various kinds of physical handicaps would need to learn as any other student.          Which of these facilities are available in your school?</p>
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**SEPTEMBER**

<p><b>Chapter 4 Social Justice</b></p>	<ul style="list-style-type: none"> <li>• WHAT IS JUSTICE?</li> <li>• Equal Treatment for Equals</li> <li>• Proportionate Justice</li> <li>• Recognition of Special Needs</li> <li>• JUST DISTRIBUTION</li> <li>• JOHN RAWLS' THEORY OF JUSTICE</li> <li>• PURSUING SOCIAL JUSTICE</li> </ul>	<ul style="list-style-type: none"> <li>• Identify some of the principles of justice which have been put forward in different societies and at different periods of time.</li> </ul>	<p>Video</p> <ul style="list-style-type: none"> <li>• John Rawls' theory of Social Justice.</li> </ul>	<p><b>RESEARCH WORK</b></p> <ul style="list-style-type: none"> <li>• Various calculations of the minimum requirements of food, income, water and such facilities have been made by</li> </ul>
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		<ul style="list-style-type: none"> <li>● Explain what is meant by distributive justice.</li> <li>● Discuss John Rawls' argument that a fair and just society would be in the interest of all members and could be defended on rational grounds..</li> </ul>		government agencies and U.N. agencies. Search in your school library, or on the internet, for any such calculations.
<b>Chapter 5 Rights</b>	<ul style="list-style-type: none"> <li>● WHAT ARE RIGHTS?</li> <li>● WHERE DO RIGHTS COME FROM?</li> <li>● LEGAL RIGHTS AND THE STATE</li> <li>● KINDS OF RIGHTS</li> <li>● RIGHTS AND RESPONSIBILITIES</li> </ul>	<ul style="list-style-type: none"> <li>● What do we mean when we speak of rights?</li> <li>● What is the basis on which rights are claimed?</li> <li>● What purpose do rights serve and, why are they so important?.</li> </ul>	Video <ul style="list-style-type: none"> <li>● Fundamental Rights guaranteed by Indian Constitution</li> </ul>	<b>Art Integration</b> <ul style="list-style-type: none"> <li>● Go through the newspapers of the last few days and identify cases of rights violations which have been discussed. What should the government and civil society do to prevent such violations?</li> </ul>
<b>OCTOBER</b>				
<b>Chapter 6 Citizenship</b>	<ul style="list-style-type: none"> <li>● INTRODUCTION of topic Citizenship</li> <li>● FULL AND EQUAL MEMBERSHIP</li> <li>● EQUAL RIGHTS</li> <li>● CITIZEN AND NATION</li> <li>● UNIVERSAL CITIZENSHIP</li> </ul>	<ul style="list-style-type: none"> <li>● Explain the meaning of citizenship, and</li> <li>● Discuss some of the areas in which that meaning is being expanded or challenged today.</li> </ul>	Video <ul style="list-style-type: none"> <li>● Short clip on importance of citizenship and Right to vote.</li> </ul>	<b>JOYFUL LEARNING</b> <ul style="list-style-type: none"> <li>● Think of some examples of activities of citizens in your area intended to help others, or improve the area,</li> </ul>

	<ul style="list-style-type: none"> <li>● GLOBAL CITIZENSHIP</li> </ul>			<p>or protect the environment. List some of the activities which could be undertaken by young people of your age- group.</p> <p><b>RESEARCH WORK:</b></p> <ul style="list-style-type: none"> <li>● Find out about Global Citizenship Education (GCED) from <a href="https://en.unesco.org/themes/gced">https://en.unesco.org/themes/gced</a> and <a href="https://www.gcedclearinghouse.org">https://www.gcedclearinghouse.org</a></li> </ul>
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**NOVEMBER**

<p><b>Chapter 7 Nationalism</b></p>	<ul style="list-style-type: none"> <li>● INTRODUCING NATIONALISM</li> <li>● NATIONS AND NATIONALISM</li> <li>● NATIONAL SELF-DETERMINATION</li> <li>● NATIONALISM AND PLURALISM</li> </ul>	<ul style="list-style-type: none"> <li>● Understand the concepts of nation and nationalism.</li> <li>● Acknowledge the strengths and limitations of nationalism.</li> <li>● Appreciate the need for ensuring a link between democracy and nationalism.</li> </ul>	<p>Video</p> <ul style="list-style-type: none"> <li>● Briefing the concept of Nationalism</li> </ul>	<p><b>Art Integration</b></p> <ul style="list-style-type: none"> <li>● Cut out clippings from various newspapers and magazines related to the demands of various groups in India and abroad for the right to self-determination. Form an opinion about the following:</li> </ul>
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				<p>What are the reasons behind these demands?          What strategies have they employed?          Are their claims justified?          What do you think could be the possible solution?</p>
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**DECEMBER**

<p><b>Chapter 8 Secularism</b></p>	<ul style="list-style-type: none"> <li>● WHAT IS SECULARISM?</li> <li>● SECULAR STATE</li> <li>● THE WESTERN MODEL OF SECULARISM</li> <li>● THE INDIAN MODEL OF SECULARISM</li> <li>● CRITICISMS OF INDIAN SECULARISM</li> </ul>	<ul style="list-style-type: none"> <li>● What is the meaning of secularism?</li> <li>● Is secularism a western implant on Indian soil?</li> <li>● Is it suitable for societies where religion continues to exercise a strong influence on individual lives?</li> <li>● Does secularism show partiality? Does it ‘pamper’ minorities?</li> <li>● Is secularism anti-religious?</li> </ul>	<p>Video</p> <ul style="list-style-type: none"> <li>● Watch films such as Bombay and Garam Hawa? What ideals of secularism do they depict?</li> </ul>	<p><b>JOYFUL LEARNING</b></p> <ul style="list-style-type: none"> <li>● Read a short story ‘Name’ in Forsaking Paradise: Stories from Ladakh by Abdul Ghani Sheikh [Published by Katha].</li> <li>● List some of the ways in which you feel communal harmony could be promoted.</li> </ul>
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**JANUARY (REVISION AND Final EXAMINATION)**

**Annual Pedagogy  
Session-2024-25  
Class-11-Humanities  
SUBJECT-HISTORY**

S.NO	Month / topic	Theme / Audio Visual Inputs	Assignment/ discussion	Listening, speaking, reading, writing	Core Skill/Art integration /interdisciplinary linkage	Learning outcome
1	July  Theme 2	<b>City life of Mesopotamia</b> begin in 1840's Smart class (ICT)	(Art integration) Flow chat of causes of the growth in town of mesopotamia	Essay on Mesopotamia and its geography to show their writing skill	map skill - on the map of Europe locate the places Chad , Sudan , Ethopia , Tanzania (Art integration)	students are able to understand the chapter well
2.	Section 2 (C . 100BCE to 1300CE) Theme 3	<b>An empire across three continents</b> Roman historians have a rich collection to go on Which can devided a) texts b) documents c)material remains	Important questions based on chapter	Flow Chart on empire across three continents ( 27 BCE to 17th CE ) ( Art integration)	Maps, Group discussion (Diagrammatic skill),experiential learning Case study	Students will be able to answer the questions and understand the chapter well
3	Theme 5- August Nomadic empires	Explanation and discussion with the lecture method.	Questions/Ans Worksheet Flowchart on the Mongol dynasty	Videos on the life and carrier of Genghis khan (joyful learning)	Map of mongol empire ,case study/role play (Experiential learning)	Student are able to understand the chapter well.

4	September Section 3 Changing cultural Theme- 6 The Three orders.	Explanation and Discussion with the lecture method. Explanation and discussion with the lecture method	Worksheet, flow chart of advantage and disadvantage of feudalism (Art integration) Words that matter. Notes on Copernican revolution.	Notes , timelines on new monarchies Essay on humanist thought. Videos on architecture of the city of Rome	GD map of western Europe mark the extent of feudalism Debate, GD/ MAP OF THE ITALIAN STATES (Art integration and experiential learning)	Students are able to understand the topic three orders that how society had divided.
5	November Theme 11- Paths to Modernisation.	.explain with the lecture method /smart class.(ICT)	Important question and notes, timelines	Map work- On the map of China, mark and locate the main routes of Long March.	G.D , WORK SHEET( Experiential learning)	Europe were growing in areas and in population. How the people have changed their lives.
6	December Theme 10- Displacing Indigenous	Explain with the lecture method Smart class [ICT]	Important ques.,notes ,timelines based on chapter.	Short note on THE GOLD RUSH,and the growth of industries.	G.D ,WORK SHEET (Experiential learning)	Students are able to understand the chapter well.

January 2024- worksheet Revision