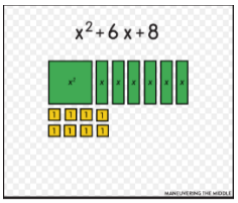
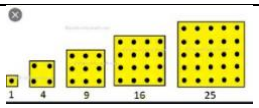
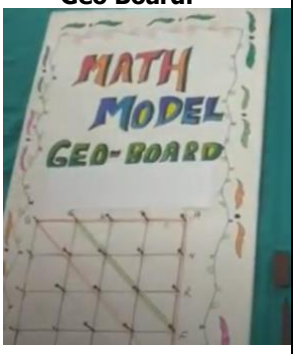
SPLIT-UP AND ANNUAL PAEDAGOGICAL LESSON PLAN

MONTH	BOOK/CHAPTER	METHODOLOGY	ACTIVITIES	LEARNING OBJECTIVE S
MARCH	**CH 1 : REAL NUMBERS**	**(i)Recapitulation** **(ii) Lecture method and Discussion method** **(iii)Explanation method** **(iv) Induction method** **(v)Explanation method and Lecture method** **(vi)Problem Solving**	**PRE-ACTIVITY:** GIVE DIAGRAMATIC REPRESENTATION (i.e. VENN DIAGRAM) THAT SHOWS THE RELATION BETWEEN NATURAL NUMBERS, WHOLE NUMBERS, INTEGERS AND REAL NUMBERS. 1. To find the HCF of two numbers experimentally based on Euclid Division Lemma.	1. Apply Euclid Division Algorithm in order to obtain HCF of 2 positive integers in the context of the given problem 2. Use the Fundamental Theorem of Arithmetic in order to calculate HCF and LCM of the given numbers in the context of the given problem 3. Apply theorems of irrational number in order to prove whether a given number is irrational or not 4. Apply theorems of rational numbers in order to find out about the nature of their decimal representation and their factors
MARCH	**CH 2 : POLYNOMIALS**	**(i)Teacher will introduce the topic by showing the video(Partial video).** https://youtu.be/AJr4i_2n6VU **(ii)Discussion method to** **(iii)Induction-Deduction method and Discussion method** **(iv)Problem Solving method**		1. Recall degree of polynomial in order to find the number of zeroes of polynomial 2. Analyse the graph of the polynomials in order to find the number of zeroes of polynomial 3. Compute zeroes of the polynomials in order to verify the relationship between zeroes and the coefficients 4. Compute the sum and product of zeroes of the polynomial in order to find the quadratic polynomial 5. Divide the two given polynomials in order to verify the division algorithm

				6. Divide the given polynomial with its known zero in order to find all the other zeroes of that polynomia
MARCH	**CH 3 : PAIR OF LINEAR EQUATIONS IN TWO VARIABLE**	**(i) Recapitulations** **(ii) Lecture method.** **(iii)Demonstration method** **(iv) Explanation method and Discussion method** **(v) Lecture Method** **a. Substitution Method** **b. Elimination Method** **(iv) Problem Solving Method**	**To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.**	**1.** State the properties of linear equation in order to classify the given equations as linear or non linear **2.** Interpret the concepts of linear equations in order to represent any given situation algebraically and graphically **3.** Demonstrate given two linear equations in order to comment on the nature/behaviour of the lines representing the linear equations **4.** Use different algebraic methods in order to solve a pair of linear equations
APRIL	**CH3 : PAIR OF LINEAR EQUATIONS IN TWO VARIABLE**	**(i) Recapitulations** **(ii) Lecture method.** **(iii)Demonstration method** **(iv) Explanation method and Discussion method** **(v) Lecture Method** **a. Substitution Method** **b. Elimination Method** **(iv) Problem Solving Method**		**5.** Use the most appropriate algebraic method in order to solve the given pair of linear equations **6.** Use the concepts of pair of linear equations in two variables in order to represent any given situation algebraically and find its solution **7.** Calculate the ratio of coefficients of linear equations in order to discuss the nature of pair of linear equations **8.** Rewrite the given equations (using substitution method) which are reducible to a pair of linear
APRIL	**CH 4: QUADRATIC EQUATIONS**	**(i) Recapitulation**		**1.** Write Quadratic Equation in order to

		(ii) Lecture method **(iii)Explanation method to** **(iv) Deduction method** **(v)Inductive-Deductive method**	FACTORISATION OF QUADRATIC EQUATION BY PLAY WAY METHOD.  **FACTORISATION OF QUADRATIC EQUATION**	represent the given situation algebraically **2.** Rewrite the given equations in the standard form in order to check whether they are quadratic or not **3.** Solve quadratic equations through factorization in order to find its roots **4.** Solve quadratic equations through middle term splitting in order to find its roots **5.** Solve quadratic equations by completing the square in order to find its roots **6.** Use the quadratic formula in order to find the roots of quadratic equation **7.** Substitute the value of the roots of a given equation in order to verify the roots of that quadratic equation **8.** Examine the discriminant of quadratic equation in order to find out the nature of its roots **9.** Describe the nature of the roots of a quadratic equation in order to determine that whether a given situation is possible or not
APRIL	**CH 5: ARITHMETIC PROGRESSIONS**	**(i) Lecture method for definition of A.P.** **(ii)Explanation method to check whether given sequence is in A.P not.** **(iii) Lecture method and Deductive method to explain and derive the formula of an.** **(iv)Deductive method to explain how to use an formula.** **(v) Inductive method to derive the formula of Sn.**	**Pre-Activity:** Arrange and Find the pattern. Few cards having different number of dots will be displayed, students will try to find out the pattern and will arrange them in proper sequence.	**1.** Produce patterns in order to observe that succeeding terms are obtained by adding a fixed number to the preceding terms. **2.** Distinguish between finite and infinite AP in order to determine the nature and write the last term of the given AP

		(vi) Deductive method to explain how to use Sn formula. **(vii)Problem Solving and Discussion method to solve the Exercises.** **(viii) Lecture cum discussion method to solve the word problems.**	 **Post - Activity:** Find the sum of first n natural numbers Sn. Sn=n22a+n-1d.	**3.** Calculate the nth term of a given AP in order to find its terms and their nature **4.** Calculate the nth term of a given AP in order to solve for a real-life word problem
JUNE	**CH 5: ARITHMETIC PROGRESSIONS**	**(i) Lecture method for definition of A.P.** **(ii)Explanation method to check whether given sequence is in A.P not.** **(iii) Lecture method and Deductive method to explain and derive the formula of an.** **(iv)Deductive method to explain how to use an formula.** **(v) Inductive method to derive the formula of Sn.** **(vi) Deductive method to explain how to use Sn formula.** **(vii)Problem Solving and Discussion method to solve the Exercises.** **(viii) Lecture cum discussion method to solve the word problems.**	**1. To identify AP in some of the given list of numbers** **2. To Find the Sum of 1st "n" odd natural numbers**	**5.** Calculate the sum of a given AP in order to get the solution for a real-life word problem **6.** Calculate the sum of a given AP in order to solve for various questions related to progression **7.** Calculate the last term of the given AP in order to find the solution for a real-life word problem **8.** Use appropriate formula to calculate the last term of the given AP
JUNE	**CH 6: TRIANGLES**	**LECTURE METHOD:** **To introduce the concept of Similarity of figures.** **DEDUCTIVE METHOD:** **To prove BPT and converse of BPT.** **To prove the similarity criteria (SSS, SAS, AAA)** **To prove that the ratio of areas of two similar triangles is equal to square of the ratio of their corresponding sides.** **PROBLEM SOLVING METHOD:** **To Solve problems given in exercises.**	**Post Activity:** **To verify BPT with the help of Geo Board.**  **1.** To verify Basic Proportionality Theorem (Thales theorem).	**2.** Distinguish between congruency and similarity in order to understand the concept of similar figures **3.** Compute the angles and ratio of sides of polygons in order to determine their similarity **4.** Compute the angles and ratio of sides of triangles in order to determine their similarity **5.** Apply basic proportionality theorem and its converse in order to determine the ratio of sides in the given triangle(s **6.** Apply various criterions of similarity in order to prove

				whether given triangles are similar or not **7.** Show similarity of triangles in order to solve for given real life word problems
JUNE	**CH 7 : COORDINATE GEOMETRY**	**Recapitulation of the concept of coordinate geometry by questioning method.** **Explanation and Discussion on Distance Formula.** **Inductive method to derive distance formula.** **https://student.homeworkapp.ai/home/2fcb6c9b-8bf3-4b35-b9e4-2c18da016d4e** **Explanation and Discussion on Section Formula.** **Problem Solving Method to solve problems on distance formula, section formula.**	**Pre-Activity:** "With the help of table arrangement of the class room, students will explain cartesian plane". **Post-Activity:** "With the help of seating arrangement of the classroom, student will explain how to find distance between any two seats". **1. Verification of distance formula by graphical method** **2. Student will find the length of a line segment joining any two points in the cartesian plane by distance formula and verify it by measuring it with a ruler.** **3. To Verify the distance formula by graphical method** **4. To verify section formula by graphical method**	**1.** Identify x and y coordinate in order to plot points on the graph **2.** Apply and derive distance formula in order to determine the distance between two coordinates on the graph **3.** Apply distance formula in order to solve various mathematical and real-life situations graphically **4.** Apply and derive section formula in order to divide the line segment in a given ratio **5.** Apply distance and section formula in order to determine the vertices/diagonals/mid points of given geometrical shapes
JULY	**CH 13: STATISTICS**	**(i)Recapitulation of mean, median and mode for ungrouped data.** **(ii) Lecture method and Discussion method to introduce the topic.** **(iii)Explanation method to introduce Mean, median and mode for grouped data.**		**1..** Apply direct method in order to calculate the mean of the grouped data 2.. Apply assumed mean method in order to calculate the mean for a grouped data 3.. Compute the mean and mode of the given data in order

		(iv) Induction method to explain the relationship between Mean, median and mode. **(v)Problem Solving method to solve the exercise.**		to interpret the two measures of central tendency 4.. Apply formula for the median of a given grouped data in order to calculate missing values of Frequency 5.. Differentiate between mean, median and mode with examples in order to understand most effective measure of central tendency in various cases
JULY	**CH 14: PROBABILITY**	**Introduction of the topic will be done by showing the video.** **https://www.youtube.com/watch?v=iYShqu736XQ** **1. Recapitulation method to recall the concept of experimental probability.** **2. Introduction to the concept of Theoretical Probability by lecture method.** **3. Discussion method to find the sample Space of different experiments.** **4. Explanation Method, Discussion method and Problem solving method to solve the exercise.**	1..Categorization of Playing cards . Students will organize the p per their understanding and will discuss the same. 2..To determine experimental probability of 1, 2, 3, 4, 5 or 6 by throwing a die 100 times and compare them with their theoretical probabilities. **Nearpod Activity:** https://app.nearpod.com/?pi 2DDD1F1E710517ECFC6	**1..** Differentiate between Empirical probability and theoretical probability in order to find the two for a variety of cases 2.. Calculate the probability of given events in an experiment in order to comment whether they are complementary events/Sure event/impossible event 3.. Represent using organized lists, tables, or tree diagrams in order to List the sample space for compound events 4.. Calculate the probability of various events in order to rank them from most to least probable
AUGUST	**CH 8: INTRODUCTION TO TRIGONOMETRY**	**Introduction of the topic will be done by showing the video.** **https://www.youtube.com/watch?v=oL5I65aPGB4** **1.Explanation and Discussion on the trigonometric ratio's namely, sine, cosine, tangent, cotangent, secant and cosecant.** **2.Inductive method to find trigonometric ratios for specific angles like -0°,30°,45°,60° and 90°** **3.Explanation and Discussion on trigonometric ratios of complementary angles.** **4.Explanation and Discussion on trigonometric identities.** **5.Inductive method to derive trigonometric identities.** **6.Problem Solving Method to solve problems on the concepts of trigonometry.**		1. Describe trigonometry in order to study the relationship between side and angle of a triangle 2. Define and distinguish various trigonometric ratios in order to describe and verify sine, cosine, tangent, cosecant, secant, cotangent of an angle 3. Use given trigonometric ratio(s) in order to find and verify other trigonometric ratios/angles of the triangle

				4. Compute the trigonometric ratio of 00, 300, 450, 600, 900 in order to know and apply the value of specific angles 5. Compute the trigonometric ratio of complimentary angles in order to apply the values in mathematical problems 6. Compute and apply trigonometric identities in order to simplify and solve mathematical problems
AUGUST	**CH 9: SOME APPLICATIONS OF TRIGONOMETRY**	**Lecture method to explain the application of trigonometry in real life by giving examples.** **Explanation and Discussion on angle of elevation and angle of depression with the help of TAL.** **Recapitulation of trigonometric ratio for specific angles by questioning method.** **Problem Solving Method to find height and distance of distant objects using the concept of trigonometry.**	• Students will write the applications of trigonometry in real life. • To find height of a building / tree using a **clinometer**. • Use of TAL to explain the concept of angle of elevation and angle of depression.	1. Identify line of sight in order to determine angle of elevation and angle of depression **2.** Apply trigonometric ratios (of specific angles) in order to determine heights and distances of the objects
AUGUST	**CH 10: CIRCLES**	**(i)Recapitulation of basic concepts of circles.** **(ii) Lecture method and Discussion method to introduce the topic.** **(iii)Explanation method to explain theorems.** **(iv)Discussion method and Problem Solving method to solve the exercises**	**1.** To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point. **2.** To verify that the lengths of tangents to a circle from some external point are equal. 3. Paper folding activity to show that the length of tangents to a circle from an external point are equal.	**5.** Draw, identify and differentiate between secant and tangent of a circle in order to prove and apply various theorems related to circles **6.** Prove and apply theorems related to tangent of a circle in order to determine number of tangents from the given point(s) Prove and apply theorem related to tangent of a circle in order to determine length of the tangent

			4. Students will measure the angle between the radius and tangent to the circle at the point of contact and verify that the radius is perpendicular to the tangent at point of contact.	
SEPTEMBER	**CH 11: AREAS RELEATED TO CIRCLES**	**QUESTIONING METHOD:** **To revise the concept of area and perimeter of a circle learnt till class 9.** **EXPLANATION AND DICUSSION on the concept of sector, arc and segment of a circle.** **DEDUCTIVE METHOD to develop the relation between the radius and central angle (Θ) to find the area of a sector and length of the arc.** **Area of a sector =** $360°\times\pi r2$ **Length of an arc =** $360°\times2\pi r$ **PROBLEM SOLVING METHOD:** **To solve problems related to areas related to sector, segment and arc of a circle given in the exercises.**	**ACTIVITY TO FIND THE AREA OF A CIRCLE BY PAPER FOLDING AND CUTTING METHOD.** https://www.youtube.com/watch?v=Gmhw1x-iAds 	**1** Describe the relationship between circumference and diameter of a circle in order to define **2..** Apply the concepts of circumference and area of in order to solve in for various circular objects in real life **5.** Describe sector and segment of a circle in order to differentiate between the two **6.** Describe minor and major sector of a circle in order to differentiate between the two **7.** Describe minor and major segment of a circle in order to differentiate between the two **8.** Apply the formula of area of sector and segment of a circle in order to compute the area of a specified region **9.** Calculate the length of an arc of a circle in order to comment whether it is the major arc or minor arc **10.** Calculate the area of various combinations of plane figures in order to apply the concepts of circles, quadrilaterals and triangles
SEPTEMBER		**(i)Recapitulation of basic concepts of circles.**		

	CH 12: SURFACE AREAS AND VOLUME	**(ii) Lecture method and Discussion method to introduce the topic.** **(iii)Explanation method to explain the formulas** **(iv)Discussion method and Problem Solving method to solve the exercises**		**1..** Apply formulas of surface area of 3D solids in order to derive the area of a new solid **2..** Apply formulas of volume of 3D solids in order to derive the volume of a new solid **3..** Apply formulas of volumes of 3d solids in order to derive the volume of the new converted solid 4.. Use concepts of surface areas and volumes for a variety of 3-D objects in order to apply into real life situations

SPLIT-UP AND ANNUAL PAEDAGOGICAL LESSON PLAN-2024-25

MONTH	BOOK/CHAPTER	ACTIVITIES	LEARNING OBJECTIVES
MARCH -24	CHAP-1.HISTORY RISE OF NATIONALISM IN EUROPE	**Take reference from Frederic Sorrieu's (French Artist) Painting & Make a Painting on 'My dream, My India'.)** **Experiential Learning:** **Based on the topic "Unification of Germany" students will have to research on Unification of India after Independence.**	Infer how the French Revolution had an impact on the European countries in the making of nation state. • Enumerate and evaluate the validity of the nature of the diverse social movements of the time • Analyse and infer how the idea of nationalism emerged and led to the formation of nation states in Europe and elsewhere. • Illustrate that, the quest for imperialism triggered the First World War.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
MARCH	**POLITICAL SCIENCE CHAP-1.POWER**	**ACTIVITY**	• Enumerate the need for power sharing in democracy. • Analyse and infer the challenges faced by Belgium and Sri

	SHARING	Flow Chart Make a flow chart of vertical and horizontal form of power.	Lanka in ensuring Power sharing. • Compare and contrast the power sharing of India with Sri Lanka and Belgium • Summarize the purpose of power sharing in preserving the unity and stability of a country.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
MARCH	**POLITICAL SCIENCE CHAP-2.FEDRALISM**	**Flow chart-** **Word wall-**	• Analyse and infer how federalism is being practised in India. • Analyse and infer how the policies and politics that has strengthens federalism in practice
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
APRIL	**GEOGRAPHY CHAP-1. RESOURCES AND DEVELOPMENT**	**ACTIVITY** .Make a project showing consumption and conservation of resources in your locality. .Have a discussion in the class how to conserve various resources used in your school.	• Enumerates how the resources are interdependent, justify how planning is essential judicious utilization of resources and the need to develop them in India • Infers the rationale for development of resources • Analyse and evaluate data and information related to non-optimal land, utilization in India • Appraise and infer the need to conserve all resources available in India suggest remedial measures for optimal utilization of underutilized resources
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
APRIL-24	**ECONOMICS CHAP-1. DEVELOPMENT**	**Discussion:** Teacher will discuss about the **'Indicators of HDI'**. **TAL INTEGRATION:** **Experiential Learning:** **Students can go around their school campus and note how much of waste is generated in different locations (ex: office, canteen etc) .They can note what**	• Enumerate different and examine the different processes involved in setting developmental Goals that helps in nation building • Analyse and infer how the per capita income depicts the economic condition of the nation. • Evaluate the development goals that have been set for the nation by the Planning commission of India -with specific reference to their efficacy, implemental strategies, relevance to current requirements of the nation • Compare and contrast how the per capita income of some countries and infer reasons for the variance • Analyses the multiple perspectives on the need development.

		is thrown and what can be reused.	
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
APRIL	**HISTORY** **CHAP-3** **MAKING OF GLIBAL WORLD**	**TAL INTEGRATION:** Students will be shown a **video on silk route** ***Indentured Labour Migration from India*** **Activity:- Imagine** that you are an agricultural worker who has arrived in America from Ireland. Write a paragraph on why you choose to come and how you are earning your living. **-** **Prepare a flow chart**	• Summarize the changes that transformed the world in terms of economy, political, cultural and technological areas. • Depict the global interconnectedness from the Pre modern to the present day. • Enumerate the destructive impact of colonialism on the livelihoods of colonised people
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
APRIL	**POLITICAL SCIENCE** **CHAP-3** **GENDER, RELIGION AND CASTE.**	**TAL INTEGRATION:** Students will be shown some short videos related to Gender, Religion & Caste Discrimination **Experiential Learning:** Prepare a skit on the issue of gender discrimination in our society **Activity:** Prepare a pie chart	• Enumerates how the differences in gender, religion and caste impact the practicing healthy or otherwise in a Democracy • Analyses and infers how different expressions based on the differences in Gender, Religion and Caste are healthy or unhealthy in a democracy.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
JUNE	**ECONOMICS** **CHAP-2** **SECTORS IN THE INDIAN ECONOMY**	Experiential Learning: Research about recently launched Pradhan Mantri Kaushal Vikas Yojna. Prepare a flow chart showing	• Analyse and evaluate the economic activities in different sectors and how they contribute to the overall growth and development of the Indian economy. • Identify problems in different sectors and propose solutions based on their understanding of the sectors.

		interdependence of three sectors.	• Analyse the major employment generating sectors and observe the challenges faced in an effort to provide employment to all. • Examines the role of Unorganised sector in impacting PCI currently and proposes suggestive steps to reduce the unorganised sector for more productive contributions to GDP • Examine and infer the essential role of the Public and Private sectors the present trends of PPP and efficacy of the initiative
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
JUNE	**GEOGRAPHY CHAP-2. FOREST AND WILDLIFE**	**Presentation and Discussion.** **Case studies and role playing.**	• Examine the importance of conserving forests and wild life and their interdependency in maintaining the ecology for the sustainable development of India. • Analyse the role of grazing and wood cutting in the development and degradation • Comprehends the reasons for conservation of biodiversity in India under sustainable development.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
JUNE	**GEOGRAPHY CHAP-3 WATER RESOURCES**	**Water conservation campaign** **Reflection and discussion**	• Examine the reasons for conservation of water resource in India. • Analyse and infer how the Multipurpose projects are supporting the requirement of water in India.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
JUNE	**POLITICAL SCIENCE CHAP-4. Political Parties**	**Role play** **Skit**	• Examine the role, purpose and no. of Political Parties in Democracy • Evaluates the contributions made by national and regional political parties in making or otherwise of Indian democracy.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
JULY	**GEOGRAPHY CAHP-4. AGRICULTURE**	**Agriculture exhibition** **Project work** **Presentation**	• Examine the crucial role played by agriculture in our economy and society. • Analyses the challenges faced by the farming community in India. • Comprehends the various aspects of agriculture, including crop production, types of farming, modern agricultural practices, and the impact of agriculture on the environment

MONTH	BOOK/CHAPTER	ACTIVITIES	LEARNING OBJECTIVES
JULY	**HISTORY CHAP-5 PRINT CULTURE AND MODERN WORLD**	**Experiential Learning:** Students will collect the information regarding famous books on which films/ Role play were made.	• Examine the development of Print from its beginnings in East Asia to its expansion in Europe and India • Analyse the impact of the spread of technology and consider how social life and culture changed with coming of print
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
AUGUST	**ECONOMICS CHAP-3 MONEY AND CREDIT**	**Experiential Learning:** Visit to banks and discuss various activities that you have observed in the bank.	• Examine money as a medium of exchange in all transactions of goods and services since ancient times to the present times. • Analyse the different sources of credit • Identify the significance and role of self-help groups in the betterment of the economic condition of rural people/women.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
AUGUST	**POLITICAL SCIECNE CHAP-5 OUTCOMES OF DEMOCRACY**	**Debate- "Democracy & Economic growth" Collect the information of gender equality of India in 2022-23 & show the graphical representation. Indicate non democratic countries in the world map.**	• Comprehends the expected and actual outcomes of democracy in view of quality of government, economic wellbeing, in equality, social differences, conflict, freedom and dignity. • Analyses the reasons behind gap that occurs in conversion of expected outcomes into actual outcomes of democracy in various respects: quality of government, economic wellbeing, inequality, social differences and conflict and finally freedom and dignity
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
AUGUST	**HISTORY CHAP-4 AGE OF INDUSTRIALIZATION**	**CASE STUDY DEBAGE AND ROLE PLAY**	• Examine economic, political, social features of Pre and Post Industrialization. • Analyse the impact of Industrialisation in the colonies with specific focus on India.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
AUGUST	**GEOGRAPHY CHAP-5 MINERALS AND**	**Experiential Learning: Project on the topic Energy Conservation.— Energy Audit**	• Comprehends the formation of different types of minerals, location, their uses, importance for human life and the economy.

	ENERGY RESOURCES		• Analyses the importance of minerals and natural resources for economic development of the country their distribution, and sustainable use. • Distinguishes between the conventional and nonconventional sources of energy.
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
AUGUST	**GEOGRAPHY CHAP-7 LIFELINES OF NATIONAL ECONOMY**	**MAP WORK**	Inter disciplinary project with chapter 3 of History: The making of a Global world and chapter 4 of Economics: Globalization and the Indian Economy
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
SEPTEMBER	**GEOGRAPHY CHAP-6 MANUFACTURING INDUSTRIES**	**Experiential Learning: Select one agro-based and one mineral-based industry in your area.**	• Distinguishes between various types of manufacturing industries based on their input materials, processes, and end products, and analyse their significance in the Indian economy. • Examines the impact of manufacturing industries on the environment, and develop strategies for sustainable development of the manufacturing sector. • Analyses the relation between the availability of raw material and location of the Industry
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
SEPTEMBER	**ECONOMY CHAP-4 GLOBALISATION AND THE INDIAN ECONOMY**	**Experiential Learning: Supposing you find two people arguing: One is saying globalisation has hurt our country's development. The other is telling, globalisation is helping India develop. How would you respond to these arguments?**	• Examine the concept of globalization and its definition, evolution, and impact on the global economy. • Explore the details of the key drivers of globalization and their role in shaping the global economic landscape in various countries • Examines the significance of role of G20 and its significance in the light of India's present role Inter disciplinary Project with chapter 3 of History: "The making of a Global World" and chapter 7 of Geography: "Lifelines of National Economy"
MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
SEPTEMBER	**HISTORY CHAP-2 NATIONALISM IN INDIA**	**TAL INTEGRATION** **Activity: Imagine yourself to be a follower of Gandhiji and write a**	• Explore various facets of Nationalistic movements that ushered in the sense of Collective Belonging • Discuss the impact of the first world war on triggering two defining movements (Khilafat & Non-cooperation Movement) in

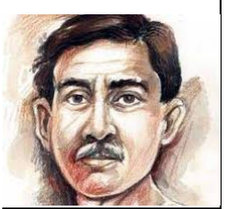
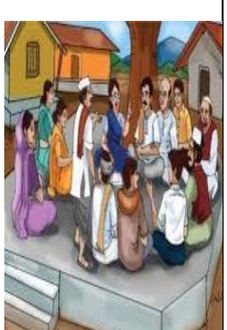
		letter expressing your views & experiences of Dandi March. **DEBATE:** **Experiential Learning:** **Role Play:**	India. • Assess/ appraise the role of Mahatma Gandhi and other leaders in the two movements (NCM & CDM)

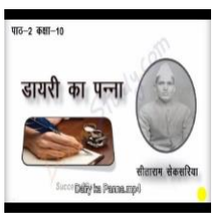
आर्मी पब्लिक स्कूल अहमदनगर

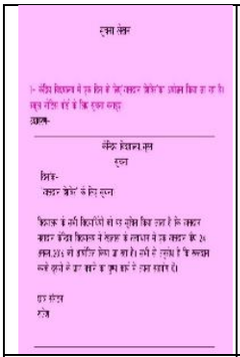
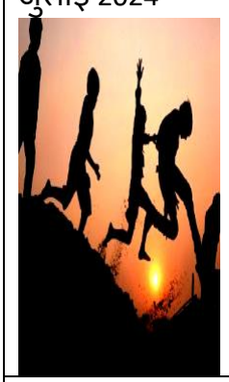
वार्षिक बाल शिक्षण विभाजित पाठ्यक्रम

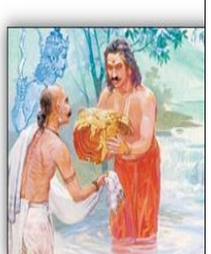
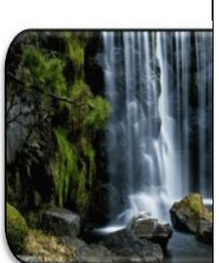
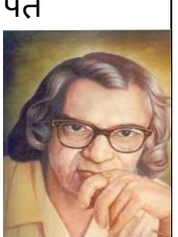
सत्र (2024-25)

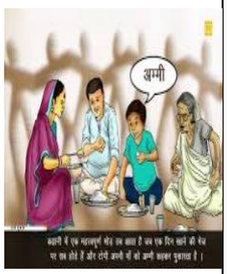
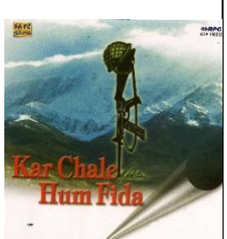
कक्षा – दसवीं **विषय और कोड : हिंदी 085** **अध्यापिका -ज्योति छेत्री**

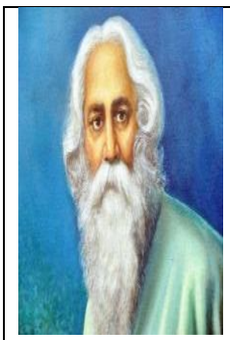
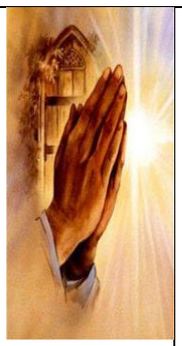
महीना: 2024-25	**पुस्तक /पाठों के नाम**	**शिक्षण पद्धति**	**गतिविधि कार्य अनुभव जन्य अधिगम + टाटा क्लास**	**सीखने के प्रतिफल**
महीना : मार्च 1 से 12 मार्च 2024 तक 	स्पर्श गद्य -1 बड़े भाई साहब- प्रेमचंद	कथोपकथन विधि विश्लेषण विधि चर्चा विधि साक्षात्कार विधि,	शिक्षा का उद्देश्य बुद्धि का विकास या अच्छे अंक प्राप्त करना'-इस विषय पर वाद-विवाद व विचारों को लिखना| पाठ की कहानी के आधार पर नाटक प्रस्तुतीकरण करना| |https://youtu.be/ZMCIaDXjuww	खेल के साथ साथ पढ़ाई के महत्व को समझेंगे | बड़े भाई/बहन की जिम्मेदारियों से परिचित होंगे| पढ़ाई एवं खेल के साथ जीवन में अनुशासन के महत्त्व को समझेंगे|
13 से 20 मार्च 2024 तक	**स्पर्श पद्य-1 साखी - कबीर**	सस्वर वाचन विधि दृश्य-श्रव्य विधि, गेयात्मक विधि विश्लेषण विधि चर्चा विधि	भक्तिधारा के नीतिपरक दोहों को खोजकर अर्थ सहित लेखन/ गायन कीजिए | कबीर जी की साखियों को छात्रों ने अपने जीवन में कैसे अपनाया अपने अनुभव सुनाना| https://youtu.be/ AGyyvjVXMA	कबीर की उपदेश भावना एवं आराध्य के प्रति भक्ति भावना का ज्ञान होगा | नीतिपरक दोहों की महत्ता का ज्ञान होगा |
21 से 30 मार्च 2024 	**संचयन पाठ 1 हरिहर काका – मिथिलेश्वर**	प्रकटवाचन विधि कथोपकथन विधि चर्चा विधि स्पष्टीकरण विधि	पारिवारिक स्थितियों में आ रहे बदलाव पर चर्चा करवाना | परिवार के बड़े बूढ़ों के प्रति अच्छे व्यवहार का अनुभव कक्षा में सुनाना | पाठ के आधार पर उससे मिलती जुलती कहानी का लेखन कीजिए | https://youtu.be/uQJBz_X7kRk	पारिवारिक एवं सामाजिक कर्तव्यों के प्रति जागृत होंगे| धर्म की आड़ में होनेवाले बुरे कार्यों के प्रति सचेत होंगे| भाषिक ज्ञान बढ़ेगा। शब्दज्ञान में वृद्धि होगी।
1 से 13 अप्रैल 2024	**व्याकरण पदबंध , रचना के आधार पर वाक्य रूपांतरण**	चर्चात्मक विधि आगमन विधि उदाहरण विधि	बोर्ड पर शब्द व पद,पदबंध के भेदों को लिखकर उनकी पहचान करवाना | वाक्यों की रचना के लक्षण से वाक्य भेद पहचानना | वाक्यों को रूपांतरित कर लिखना |	छात्र शब्द रचना के बारे में जान सकेंगे|| व्याकरणिक क्षमता का विकास होगा| सृजनात्मक क्षमता का विकास होगा।

15 अप्रैल 20 अप्रैल 2024	**व्याकरण- समास परिभाषा, भेद व उदाहरण**	उदाहरण विधि व्याख्यान विधि चर्चा विधि प्रश्नोत्तर विधि	**श्यामपट्ट पर अलग-अलग शब्द लिख कर समस्त पद बनाना तथा समस्त पद से समास विग्रह करवाना|**	छात्र शब्द रचना के बारे में जान सकेंगे| समास के आधार पर शब्द निर्माण कर सकेंगे| व्याकरणिक क्षमता का विकास होगा| सामासिक शब्द पहचानने की क्षमता विकसित हो पाएँगी|
22 अप्रैल से 25 अप्रैल 2024 व्याकरण – मुहावरे	**व्याकरण – मुहावरे**	कथोपकथन विधि विश्लेषण विधि चर्चा विधि साक्षात्कार विधि,	प्रसंगानुकूल उचित मुहावरों के प्रयोग का अनुभव देना		शुद्ध वाक्य लिख पाएँगे|| भाषिक कौशल का विकास होगा|
25 अप्रैल से 03 मई 2024  	**स्पर्श पाठ 2 डायरी का एक पन्ना** -सीताराम सेकसरिया	कथोपकथन विधि विश्लेषण विधि चर्चा विधि साक्षात्कार विधि,	भारत की आजादी से संबंधित घटनाओं की जानकारी एकत्रित करना | आपके छुट्टियों से संबंधित कार्य /दिनचर्या को डायरी लेखन के रूप में लिखिए | https://youtu.be/2EIn45vV8Eg	छात्र देश के इतिहास की जानकारी प्राप्त करेगा| देशभक्ति की भावना का विकास होगा| स्वतंत्रता आांदोलन के दौरान जन सामान्य में मौजूद देशभक्ति की प्रबल भावना को दर्शाना	
3 जून से 5 जून 2024	अनुच्छेद लेखन	लेखन विधि स्पष्टीकरण विधि चर्चा विधि	विभिन्न विषयों के संकेत बिन्दुओं के आधार पर अनुच्छेद लिखेंगे		सृजनात्मक क्षमता का विकास होगा | कल्पनाशक्ति का विकास होगा| लेखन क्षमता का विकास होगा | भाषिक ज्ञान में वृद्धि होगी|
6 जून से 22 जून 2024	**पत्र लेखन (औपचारिक) सूचना लेखन लघुकथा लेखन/इमेल विज्ञापन लेखन**	लेखन विधि स्पष्टीकरण विधि चर्चा विधि	1 छात्र-परिषद की बैठक में आमंत्रित करते हेतु प्रधानचार्या जी को पत्र लेखन करेंगे | 2. आगामी माह में होने वाले वार्षिकोत्सव से संबंधित तैयारी के लिए विद्यार्थी परिषद की बैठक (Meeting) के लिए सूचना-पत्र	कल्पना शक्ति का विकास होगा बौद्धिक क्षमता का विकास होगा। निर्णय क्षमता का विकास होगा	

	**अपठित गद्यांश**	उदाहरण विधि	3. 'बीता समय वापस नहीं आता' इस विषय पर लघु कथा लिखिए | https://youtu.be/7cQNl0wQ7w	
महिना : 24 जून से 29 जून 2024 	**स्पर्श पद्य मीरा के पद**	लयात्मक विधि कहानी कथन विधि चर्चा विधि प्रश्नोत्तर विधि	मीरा जी के द्वारा रचित अन्य पदों को लिपि बद्ध कीजिए व पदों के विषय में अपने विचार प्रस्तुत कीजिए| मीरा जी के अन्य पदों का गायन कक्षा में कीजिए| https://www.youtube.	त्याग का महत्व समझ पाएँगे | संत कवियों के कठिन जीवन को समझना| मीराबाई की भक्ति,त्याग, रचनाओं से महिलाओं की शक्ति,योग्यताओं को पहचान पाएँगें तथा उनका सम्मान करना सीखेंगें| प्रेरणा का भाव जाग्रत होगा |
1 जुलाई से 13 जुलाई 2024 	**संचयन पाठ 2 सपनों के से दिन - गुरदयालसिंह**	फ्लिप्ड /पलटी क्लासरूम विधि व्याख्यान विधि कथाकथन विधि चर्चात्मक विधि	अपना विद्यालय अलग विशेषता लिए है | कैसे? 50 शब्दों में लिखिए | छात्र विद्यालय जाने पर उसका वर्णन सुंदर अक्षरों में करेंगे | (कहानी लेखन के रूप में) https://youtu.be/nP_SHrOmnx8	छात्र समय पर अपना कार्य करना सीखेंगे | पाठ द्वारा शिक्षक के प्रति आदर भावना बढ़ेगी| बलिदान के कारण आनेवाली सामाजिक जागरूकता को समझेंगे|
15 जुलाई से 23 जुलाई 2024 	**स्पर्श पाठ 3 तताँरा - वामीरों कथा -लीलाधर मंडलोई** 	प्रकटवाचन विधि कथोपकथन विधि स्पष्टीकरण विधि चर्चा विधि प्रश्न उत्तर विधि	अंदमान –निकोबार द्वीपसमूह के नक्शे के माध्यम से वहाँ के भौगोलिक स्थिति की जानकारी दीजिए| भारत के मानचित्र में (नक्शे) अंदमान निकोबार द्वीप समूह चिह्नित कीजिए एवं किन्ही चार जनजातियों की संक्षिप्त जानकारी लिखिए | https://youtu.be/NEbaYDnM96Q	रूढ़ियाँ एवं परम्पराओं के पीछे छिपे अंधश्रद्धा को जानकर उसे दूर करने का प्रयास करेंगे | बलिदान के कारण आनेवाली सामाजिक जागरूकता को समझेंगे|

महिना : 24 जुलाई से 31 जुलाई 2024 	**स्पर्श** **पाठ 6 - अब कहाँ दूसरों के दुःख से दुःखी होनेवाले** 	कथोपकथन विधि व्याख्यान विधि चर्चा विधि	नैसर्गिक आपदाओं से बचने के लिए किए जाने वाले उपायों पर चर्चा करना| पशु पक्षी एवं वन्य संरक्षण केंद्रों में जाकर (नेट की सहायता से) पशु पक्षियों की सेवा सुश्रुषा के संबंध में जानकारी प्राप्त कीजिए| 'प्रकृति और मानव' इस विषय पर लघुकथा लेखन कीजिए | https://youtu.be/Tn0YaXYLFy	पशु पक्षियों के प्रति प्रेम भावना जागृत होगी तथा पर्यावरण की रक्षा की जिम्मेदारी को समझकर उनका पालन करेंगें| छात्रों में मानवीय गुणों का विकास होगा| प्रकृति के प्रति अपनी जिम्मेदारियों को समझेंगे|
1 अगस्त से 8 अगस्त 2024 	**स्पर्श** **पद्य 4** **मनुष्यता** **मैथिलीशरण गुप्त** 	कथोपकथन विधि व्याख्यान विधि चर्चा विधि	महापुरुषों/दानवीर व्यक्तियों की जानकारी प्राप्त कर उनके कार्यों एवं कार्यक्षेत्रों पर चर्चा करेंगें | मनुष्यता के गुण जैसे-त्याग,दान, परोपकार,दया आदि को अपने जीवन में अपनाएँगे| मानवता के भाव को व्यक्त करनेवाली स्वरचित कविता का लेखन करेंगें| **https://youtu.be/t8SaCjRAeYM**	उचित जीवन आचरण की संकल्पना स्पष्ट होगी | अहंकार की भावना नष्ट होने में सहायता होगी| **छात्र विभिन्न कठिन प्रसंगों में एक दूसरे के साथ मानवता का व्यवहार करना सीखेंगे** |
9 अगस्त से 14 अगस्त 2024 	**पद्य 5** **पर्वत प्रदेश में पावस** सुमित्रानंदन पत 	सस्वर वाचन विधि विश्लेषण विधि स्पष्टीकरण विधि	बारिश , झरने , इंद्रधनुष , बादल , कोयल , पानी , पक्षी , सूरज , हरियाली , फूल , फल , आदि प्रकृति विषयक शब्दों का प्रयोग कर या इनमें से किसी एक विषय पर एक कविता की रचना करना | https://quizizz.com/admin/quiz/5eedc46939921b001b8fe449	प्रकृति के संरक्षण के प्रति सजग होंगें| वर्षा, बादल, झरना,पहाड़,फूल, पेड़,आकाश आदि के मनमोहक रूप का ज्ञान होगा| प्रकृति का आनंद लेने और उसे सहजने की कोशिश करेंगे|

16 अगस्त से 27 अगस्त 2024  	**संचयन** **पाठ-3** **टोपी शुक्ला**	स्पष्टीकरण विधि चर्चा विधि प्रश्न उत्तर विधि	कृष्ण और सुदामा की कहानी का आज के युग में महत्त्व समझाएँगे | सच्चे मित्र की आपके जीवन में होने से आपके जीवन में आने वाले परिवर्तनों के अनुभव कक्षा में सुनाइए| 'सच्ची मित्रता' विषय पर लघुकथा लेखन करेंगे		मित्रता की भावना का विकास होगा| बच्चों की मानसिकता की जानकारी होगी| समाज में सांप्रदायिक सौहार्द बढ़ाने पर बल देना|
28 से 31 अगस्त 2024 	**पद्य 7 - तोप - वीरेन डंगवाल** 	सस्वर वाचन विधि विश्लेषण विधि स्पष्टीकरण विधि	हमारे पूर्वजों से हमें विरासत में क्या क्या मिलता हैं उनपर चर्चा करेंगें | तोप की आत्मकथा को अपने शब्दों में लिखिए एवं तोप की प्रतिकृति बनाइए | https://youtu.be/pyRdtY565pY		विरासत की रक्षा के प्रति जागरूक करना| प्रतीक एवं धरोहर क्या हैं एवं उनके महत्त्व को समझाना | मानवीय स्वभाव के व्यवहार की जानकारी देना|
2 सितंबर से 6 सितंबर 2024  9 सितंबर से 13 सितंबर 2024 पुनरावृत्ति कार्य अर्द्धवार्षिक परीक्षा 14 से 25 सितंबर 2024	पद्य 8 - कर चले हम फ़िदा- कैफ़ी आजमी 	आदर्श वाचन विश्लेषण विधि स्पष्टीकरण विधि चर्चा विधि प्रश्न उत्तर विधि	आतंकवाद बनाम मानवतावाद ' विषय पर कक्षा में परिचर्चा आयोजित करना | कोई एक देश-भक्ति की भावना से जुड़ी कविता/गीत लिखना।		इतिहास के घटनाओं की जानकारी होगी| देश-प्रेम की भावना जागृत करना। कविता की विषयवस्तु को पूर्व में सुनी हुई घटना से संबद्ध करना। साहित्य के पद्य –विधा (कविता) की जानकारी देना। छात्रों में मानवीय गुणों का विकास होगा|
26 से 30 सितंबर 2024	पद्य 9 – आत्मत्राण	सस्वर वाचन अनुकरण वाचन	रवीन्द्रनाथ ठाकुर पहले नोबेल पुरस्कार पाने वाले पहले भारतीय है	उनके विषय में जानकारी एकत्र कर लिखिए		मानवीय स्वभाव एवं उनके व्यवहार की जानकारी देना|

		विश्लेषण विधि स्पष्टीकरण विधि चर्चा विधि	'इतनी शक्ति हमें देना दाता' गीत को सुनना एवं अर्थ ग्रहण करना| https://hindisahityasimanchal.files.wordpress.com/2009/01/atmatran-ppt.ppt https://youtu.be/90BPCP5HUVs	ईश्वरीय कार्य पर ही निर्भर न रहते हुए जीवन में मेहनत से आगे बढ़ने की प्रेरणा देना | निडर होकर जीवन जीने एवं प्रार्थना की शक्ति को समझाना |
1 से 8 अक्तूबर 2024 	स्पर्श पाठ-7 पतझर में टूटी पतियाँ 	प्रकटवाचन विधि विश्लेषण विधि स्पष्टीकरण विधि चर्चा विधि प्रश्न उत्तर विधि	भारत के नक्शे में वे स्थान अंकित कीजिए जहाँ चाय की पैदावार होती है | किन्ही दो जगह के चाय के बागानों की जानकारी लिखिए | **https://youtu.be/k5pYVN4u6tg**	व्यावहारिकता एवं आदर्शवाद के अंतर को समझेंगे| जापानी लोगों की मानसिक स्थिति का परिचय | शारीरिक व्यायाम के साथ-साथ मानसिक शांति की आवश्यकता को समझेंगे| वर्तमान काल में जीवन जीने के महत्व को समझेंगे|
9 अक्तूबर से 15 अक्तूबर 2024 	स्पर्श पाठ 8 -कारतूस 	आदर्श वाचन अनकुरण वाचन कथोपकन विधि स्पष्टीकरण चर्चा	पाठ को एकांकी के रूप में प्रस्तुत करना | पात्र अभिनय द्वारा प्रस्तुत करना | भारत के मानचित्र में आजमगढ़ व गोरखपुर के जगलों की स्थिति के विषय में समझाना| https://hindisahityasimanchal.files.wordpress.com/2008/11/kartoos.ppt	छात्र एकांकी से परिचित होंगें तथा संवादो सहित कहानी लिखने व सुनने में सक्षम होंगें | आजादी का महत्व समझकर उसका सम्मान करना सीखेंगें | छात्र में देश प्रेम की भावना जागृत होगी |

SPLIT-UP AND ANNUAL PEDAGOGICAL LESSON PLAN (2024-25)

MONTH	BOOK/CHAPTER	METHODOLOGY	ACTIVITIES	LEARNING OBJECTIVES
March	First Flight L-1 A Letter To God Poem 1: Dust of Snow Poem 2: Fire and Ice SR- A Triumph of Surgery GR- Tenses WS- Letter Writing	1.Discussion 2.Explanation 3.Inductive 4.Deductive 5.Problem Solving	Letter Writing- Filling of money order form Poetry writing & recitation (Self composed poem)	By participating in a variety of reading-related activities, students will develop a love for learning, curiosity, and a habit of lifelong reading and self-improvement.
April	L-2 Nelson Mandela A Long Walk to Freedom P-3 A Tiger in the Zoo P-4 How to Tell Wild Animals SR-2 The Thief's Story GR-Modals Reading Comprehension	1.Discussion 2.Explanation 3.Inductive 4.Deductive 5.Problem Solving	Speech/Elocution - Any famous personality Poster making / Save Tigers	Enhances public speaking skills, boosts confidence, and encourages effective communication.

June **July**	**L-3 Two Stories About Flying** **P-5 The Ball Poem** **SR-3 The Midnight Visitor** **Gr-Subject Verb Agreement** **WS- Analytical Paragraph** **L-4 From the Diary of Anne Frank** **P-6 Amanda** **Sr-4 A Question of Trust** **Sr-5 Footprints Without Feet** **Gr- Determiners** **WS- Letter of complaint**	**1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving** **1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving**	**Making a Diary cover or Diary writing** **Role Play of a mother and daughter while growing up.**	**Develops skills in scriptwriting, acting, and stage performance, fostering creativity and teamwork.**

August	**L-7 Glimpses of India** **P-8 The Trees** **Sr-6 The Making of a Scientist** **Sr-7 Necklace** **Gr- Revision** **Ws- Revision**	**1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving**	**Presentation, Role Play** **Recipes of cakes and bread**	**Fosters creativity in writing and culinary skills, encourages cultural exploration and appreciation, and promotes healthy eating habits and global awareness.**
September	**L-8 Mijbil the Otter** **L-9 Madam Rides the Bus** **P-9 fog**	**1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving**	**Rally on rash driving and storytelling**	**Raises awareness of important issues and encourages advocacy through visual storytelling.**

October	**L-10 Sermon at Benaras** **P-10 The Tale of the Custard Dragon** **P-11 For AnneGregory** **Sr-9 Bholi** **Gr- Reported Speech** **Wr-Letter of inquiry**	**1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving**	**Debate on social evils-dowry system** **Poster making-Save the Girl Child**	**Improves communication skills through scripting, narration, and interviewing guests.**
November	**L-11 The Proposal** **Sr- The Book that Saved the Earth** **Gr- Revision**	**1.Discussion** **2.Explanation** **3.Inductive 4.Deductive** **5.Problem Solving**	**Role Play**	**Promotes awareness of social and global issues through theme-based reporting.** **Fosters communication skills and confidence in presenting news stories to an audience.**

SPLIT-UP AND ACTIVITIES PLAN

CLASS X BIOLOGY (2024-25)

MONTH	**BOOK/CHAPTER**	**ACTIVITIES**	**LEARNING OBJECTIVES**
*MARCH *APRIL *JUNE(till 15$^{TH\ June}$)	CHAP 6 : LIFE PROCESSES	1.Chloroplast is essential for photosynthesis. 2. Carbon dioxide is essential for photosynthesis. 3. Preparation of stomata slide. 4.Study of aerobic respiration in germinating seeds.	Students are able to describe, *Life processes Nutrition, respiration, excretion, transportation. * Autotrophic and heterotrophic nutrition * Types of heterotrophic nutrition * Human digestive system, organs of digestion and mechanism of digestion. * Human Respiratory system & organs of respiration. *Respiration in plants. *Aerobic and anaerobic respiration. * pathways of respiration. *mechanism of respiration. *Transportation in humans, organs involved in transportation, their functions and working mechanism. * Blood pressure & consequences. * transportation in plants through xylem and phloem *Human excretory system, organs, their functioning and mechanism.

			*kidney failure and dialysis. Working of dialysing machine. *Excretion in plant. *Draw the diagrams and identify the different parts with their functions.
*JUNE	CHAP 15: OUR ENVIRONMENT	1. group discussion. 2. Make a project on any topic related to a chapter.	To study and understand the following concepts: * Ecosystem-What are it's components? *Food Chains and Food Webs *How do our activities affect the environment? * Ozone layer and how it is getting depleted. *Managing the garbage we produce
*JULY	CHAP 7: CONTROL & CO-ORDINATION	* Study of different tropic movement in plants. * Study of thighmo tropism in Mimosa plant.	*. Nervous system, synapse, reflex action, human brain, structure and function. * action caused by nervous tissue. * coordination in plants, response to stimulus and movement due to growth, hormones in plants. *Endocrine glands structure & location.

			*Hormones in humans, endocrine glands, function mechanisms of hormonal actions.
*AUGUST	CHAP8: HOW DO ORGANISMS REPRODUCE?	* Study of binary fission in amoeba and budding in yeast through binary fission. * observation of reproductive structure in hibiscus flower. *study of reproductive buds in bryophyllum.	* To understand the, *DNA and chromosomes, importance of variation. *Modes of asexual reproduction— fission, fragmentation, regeneration, budding, vegetative propagation, spore formation *sexual reproduction— advantages of sexual reproduction, *reproduction in flowering plants *Human reproductive system. Male & Female reproductive system, structure, function and working mechanism. *Reproductive health and Birth control methods.
SEPTEMBER	HEREDITY AND EVOLUTION	*Study of chromosomes through permanent slides. * Study of variation in plants in school premises.	* Accumulation variation during reproduction. * heredity& and rules for inheritance of traits, expression of traits, sex determination. * study of Mendel' s laws of inheritance and ratios.
OCTOBER-NOVEMBER	REVISION SAMPLE PAPER SOLVING PREBOARDS		
DECEMBER	PREBOARDS		

SPLIT-UP AND ACTIVITIES PLAN

CLASS: X **SUBJECT: PHYSICS**

MONTH	BOOK/CHAPTER	ACTIVITIES	LEARNING OBJECTIVES
MARCH 2024 **APRIL 2024**	CHAPTER 09: LIGHT- REFLECTION AND REFRACTION	1) Verification of Laws of reflection and via an activity of estimating reflected ray path for different incident rays. 2) Lab Experiment for rough estimation of focal lengths of concave mirror and convex lens. 3) Making spherical lenses and mirrors using household object like spoons and water filled transparent polythene bags etc. 4) Enlisting and explaining the very common daily life applications of spherical reflecting and refracting objects and making their models.	1) State the laws of reflection and refraction of light, in order to understand how light travels in a medium when it encounters another object or another medium. 2) Outline the rule of image formation by spherical mirrors and spherical lenses in order to complete the ray diagrams by drawing reflected and refracted rays. 3) Represent the path of incident ray and reflected or refracted ray in order to decipher the position and nature of image formed. 4) Express u, v, f in the mirror and the lens formula in order to apply sign convention in solving word problems to find the unknown variable. 5) State the magnification for

			a lens or a mirror, in order to relate height of object with height of image Calculate the power of a lens, in order to determine its power to converge or diverge
JUNE 2024 **JULY 2024**	CHAPTER 10: HUMAN EYE AND THE COLORFUL WORLD.	1) Visit nearby Ophthalmologist to get more information about vision defects and their remedies. 2) To make kaleidoscope and simple periscope cum telescope using spherical mirrors and lenses. 3) Demonstration of scattering of light in different colloidal solutions.	1) Describe the structure of an eye and functions of various parts that help humans to see. Identify the causes of defects of vision in human eye and suggest correction procedures. 2) Demonstrate that white light is dispersed into seven colours by a prism and explain the reasons for the same. 3) Provide scientific explanation for twinkling of stars, advanced sunrise and delayed sunset. 4) Relate scattering of light to Tyndall effect, blue colour of sky and red colour of sun at sunrise and sunset.
AUGUST 2024 **SEPTEMBER 2024**	CHAPTER 11: ELECTRICITY	1) Making a simple heating iron using thick pencil lead and a 9 V battery. 2) To measure resistance of	1) Plot a graph between voltage and current, in order to prove ohm's law & find resistance. Define resistivity

		different materials using a multi-meter. 3) Study of relation of V, I and R in Ohm's Law Experiment.	and its range for different materials, in order to classify substances as conductors, alloys and insulators. 2) Define resistivity and its range for different materials, in order to classify substances as conductors, alloys and insulators. 3) Explain and calculate the heating effect of electric current, in order to learn working of appliances like heater, iron and fuse. 4) Determine work done in moving a charge across two points, in order to calculate potential difference between two points. 5) Determine the resultant resistance in a series and a parallel combination, in order to identify the suitable combination like house, etc.
SEPTEMBER 2024 **OCTOBER 2024**	CHAPTER 12: MAGNETIC EFFECTS OF ELECTRIC CURRENT.	1) Study of domestic electric circuit with School Electrician. 2) Demo of	1) Draw magnetic field lines for a bar magnet, in order to identify the magnetic field

		magnetic lines around a current carrying conductor 3) Demo of Fleming's Left and Right hand rule in the Lab. 4) Study of formation of magnetic field lines with the help of a bar magnet and iron filings 5) Study of formation of magnetic field lines around bar magnet using magnetic niddle.	strength at different points around a magnet 2) Represent magnetic field lines for a straight current carrying conductor, in order to identify the magnetic field strength at different points around it. 3) State and Explain Fleming's Left-Hand rule and Fleming's right hand rule. 4) Analyse the significance of neutral, earth and live wire, in order to understand formation of a domestic electrical circuit
November 2024 **December 2024**	1) Revision / Doubt Solving 2) Sample paper Solving 3) Pre-board Examination I and II	1) Solving Board Sample Papers published by CBSE 2) Getting solved previous Board papers as home assignment. 3) Practicing different types of questions via class tests.	1) To Analyse the conceptual clarity and knowledge of the students. 2) To give them advanced additional practice of different types of questions from the point of view of the Board Examination. 3) To enhance their presentation and time management skills for the Board Examination.
January 2025	Pre-Board Examination III	--	--
February 2025	CBSE Board Examinations	--	--

March 2025			

SPLIT-UP AND ACTIVITIES PLAN 2024-25

Chemistry

Class: X

MONTH	BOOK/CHAPTER	ACTIVITIES	LEARNING OBJECTIVES
March	Ch 1. Chemical reactions and equations. NCERT (Oswal , Together with and Pradeep's chemistry)	Students will be divided into groups and allowed to choose the type of reactions they can perform with their own.	1.The student will be able to apply the law of conservation of mass for balancing of chemical equations. 2.The student will be able to identify the type of chemical reaction. 3. The student will be able to apply the learnt concept with day to day activities. 4. To recognise the physical and chemical processes associated with biological and industrial process.
April	Ch 2 Acid, Bases and Salts. NCERT (Oswal , Togetherwith and Pradeep's chemistry)	1.Students will prepare their own indicator. 2.Making soda acid fire extinguisher to understand the reaction of acids with metal hydrogen carbonate. 3.Growing crystals of Copper sulphate. 4. Students can collect different samples and check their pH values.	1.The student will be able to describe the to compare properties of acids and bases 2.The student will be able to find the PH of solutions and its importance in daily life. 3. The student will be able to describe the methods of preparation, chemical properties and uses of a. Bleaching powder b. Baking soda c. Washing soda d. Plaster of Paris.
July			

August	Ch 3 Metals and non-metals. NCERT (Oswal , Togetherwith and Pradeep's chemistry)	1.Collection of different metals to study their properties. 2.Uses of metals and non-metals in daily life.	1.The student will be able to understand the difference between metals and non-metals. 2. The student will be able to tell reactivity of metals. 3. The student will be able to state various steps in obtaining metals from their ores.
	Ch. 4 Carbon and its compounds. NCERT (Oswal , Togetherwith and Pradeep's chemistry)	Students will critically analyse and examine substances like coal, graphite, ethanol, acetic acid etc. ➢ They will appreciate the importance of ethanoic acid and perform activities in the lab. ➢ They will learn to prepare soap in chemistry lab by collaborating with each other.	Students will be able to tell about covalent bonds, electron dot structures, of various carbon compounds. ➢ They will acquire knowledge of various industrial processes like oxidation, hydrogenation etc. ➢ They will know the differences between soaps and detergents and which one is better for cleaning purposes. ➢ Students will be able to tell about various functional groups and how they can change the properties of a compound. ➢ They can name and draw the structure of a carbon compound based on IUPAC nomenclature.