



WORLD WAY INTERNATIONAL SCHOOL
HOLIDAY ASSIGNMENT/PROJECT/RESEARCH
SESSION – 2026-2027
CLASS- X

1	ENGLISH	Prepare a poster or poem on “The Importance of Trees” inspired by “The Trees” by Adrienne Rich. Highlight environmental concerns.	You find a lost wallet on your way home. Based on the values shown in “A Letter to God”, what would you do? Explain your decision with reasons.	Why do you think Lencho still had faith in God even after receiving less money? Was his reaction justified? Give reasons.
2	HINDI	रचनात्मक कार्य- मिजोरम एवं नागालैंड का मध्य प्रदेश के साथ निम्नलिखित बिंदुओं पर तुलनात्मक अध्ययन पर परियोजना कार्य- 1. लेखक एवं कवि 2. नृत्य एवं संगीत 3. त्योहार 4. वेशभूषा 5. खान पान 6. कला कार्य (नोट - A4 साइज पेपर पर कीजिए)	आपके विद्यालय में ‘प्लास्टिक मुक्त अभियान’ चलाया जा रहा है। इस अभियान में आपके योगदान पर एवं ‘प्लास्टिक मुक्त भारत’ पर लगभग 120 शब्दों में एक अनुच्छेद लिखिए। (नोट - A4 साइज पेपर पर कीजिए)	विद्यालय में पुस्तकालय का उचित उपयोग नहीं हो रहा है। अधिकांश विद्यार्थी मोबाइल और इंटरनेट पर अधिक निर्भर हो गए हैं, जिसके कारण उनकी पढ़ने की आदत कम होती जा रही है। इस स्थिति में सुधार लाने हेतु तर्कसंगत (logical reasoning) विचारों का उपयोग करते हुए विद्यार्थियों को पुस्तकालय की ओर आकर्षित करने के लिए एक आकर्षक विज्ञापन तैयार कीजिए। विज्ञापन में प्रभावशाली शीर्षक, संक्षिप्त संदेश तथा आकर्षक स्लोगन अवश्य शामिल करें। (नोट - A4 साइज पेपर पर कीजिए)
	Sanskrit	रचनात्मक कार्य- विषय: - भारतस्य उत्तर-पूर्वाञ्चलस्य राज्य – मिजोरम नागालैण्ड च निर्देश: – अधोलिखितं विषयवस्तुं पठित्वा A3 साइज़ चार्ट-पत्रे लिखत। चित्राणि अपि योजयत। मिजोरम राज्यम् नागालैण्ड राज्यम् 1. राजधानी - 2. स्थापना -	प्रश्न: कल्पना कुरुत – भवान्/भवती नागालैण्ड अथवा मिजोरम राज्यं प्रति पर्यटनार्थं गच्छति। तत्र एकं दिनचर्यावृत्तान्तं (Diary Entry) संस्कृतभाषया ८-१० वाक्येषु लिखन्तु। संकेत:	प्रश्न: निम्नलिखितप्रश्नानाम् उत्तराणि संस्कृतभाषया पूर्णवाक्येषु लिखन्तु— 1. नागालैण्ड-मिजोरम राज्ययोः संस्कृतिः अन्येभ्यः राज्येभ्यः कथं भिन्ना अस्ति? 2. किमर्थं अस्य प्रदेशस्य संरक्षणं आवश्यकम् अस्ति?

		3. भाषा: - 4. मुख्य-पर्व - 5. वेशभूषा - 6. मुख्य-नृत्यम् - 7. विशेषता -	- किम् अपश्यत्? - केन सह मिलितवान्/मिलिता? - किं विशेषम् अनुभूतम्?	3. यदि एते राज्यौ भारतस्य न स्याताम्, तर्हि भारतस्य विविधतायाः कः प्रभावः स्यात्? उद्देश्याः विद्यार्थिनां रचनात्मकता-विकासः वास्तविकजीवनस्य सह सम्बन्ध-स्थापनम् तार्किक-चिन्तनस्य विकासः
3	MATHS	You are asked to create a visual story or poster to explain how the Euclid's Division Algorithm works in finding the HCF of two numbers (for example: 48 and 18). Represent the process using: - A flowchart OR - A comic strip story (like two numbers interacting step by step) Show each step of division clearly Use arrows, colors, or characters (like numbers "talking" to each other)	A school is arranging students into equal rows for a function. - Total students = 156 - They want to arrange them in rows such that each row has equal number of students, and no student is left out Answer: - What is the greatest number of students per row possible? - How many rows will be formed? - Which mathematical concept is used to solve this?	A student draws a graph of a polynomial and observes: - The graph cuts the x-axis at two points - It does not touch or cross anywhere else Answer: - How many real zeros does the polynomial have? - Can it be a cubic polynomial? Why or why not? - If the graph only touches (but does not cross) the x-axis at one point, what does it indicate?
4	CHEMISTRY	Thinking: How can you use a chemical reaction to create a simple fire extinguisher model?	Situation-based: You notice a metallic statue turning green in the park. Explain the chemical reaction happening.	Logical Reasoning: - If a reaction produces a gas, how can you test if it's carbon dioxide? - Why is it important to balance the

		2. Design an experiment to show the importance of balancing chemical equations in cooking.	2. Baking soda is used in cooking. How does it affect the texture of cakes?	equation for burning fossil fuels? Example Question (Logical Reasoning): A magnesium ribbon burns in air. Write the balanced equation. If the oxygen supply is reduced, what will happen to the burning? - Step 1: Write the reaction: $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ - Step 2: If O_2 is reduced, burning will slow down.
	BIOLOGY	Riya noticed that after running for a few minutes, her breathing rate increased and she started sweating. Her teacher explained that during exercise, the body's demand for energy increases. Questions: 1. Why does Riya breathe faster after running? Explain in terms of cellular respiration. 2. Why does sweating occur during exercise? How is it related to maintaining body conditions?	A group of students were studying in a small closed room for a long time. After some time, they started feeling suffocated and uncomfortable. Questions: 1. Why did the students feel suffocated after some time? 2. Which life process is directly affected in this situation? 3. How does oxygen and carbon dioxide balance change in a	A plant kept in sunlight remains fresh, but the same plant kept in a dark room starts wilting after a few days. Questions: 1. Why does the plant wilt in darkness? 2. How is transpiration related to water movement in plants? 3. Which tissue is responsible for water transport? Explain its role.

		3. If oxygen supply is insufficient during exercise, what type of respiration occurs in muscles? 4. Why does muscle pain sometimes occur after vigorous exercise?	closed room? 4. Suggest two measures to prevent this.	4. Predict what will happen if this tissue is damaged.
5	S.ST	Economics Riya visits her village and observes people engaged in farming, fishing, and mining activities. She decides to make a poster showing how these activities are important for the economy. a) Identify the sector these activities belong to. b) Define this sector in your own words. c) Draw or describe one example to include in Riya's poster. POLITICAL SCIENCE Topic: Power Sharing in Different Countries Students will study power sharing in any two countries such as Belgium, Sri Lanka, USA, or Switzerland. They will analyse how power is distributed among different organs of government and at different levels. Students will also observe how different social groups are given representation.	Economics The government runs a hospital to provide affordable healthcare, while a private company runs another hospital to earn profits. a) Identify which hospital belongs to the public sector and which to the private sector. b) On the basis of ownership and objectives, explain the difference between the two. c) Why do you think both sectors are important for the economy? POLITICAL SCIENCE India is a country with great diversity in terms of religion, language, caste, and culture. To manage this diversity, the Constitution of India provides for a system of power sharing. Power is divided horizontally among the Legislature, Executive, and Judiciary so that no organ becomes too powerful. There is also a vertical division of power between the Central Government and State Governments.	Economics Imagine your city suddenly loses transport, banking, and internet services for one week. a) Which sector is affected the most? b) Explain any three features of this sector based on the situation. c) Design a short slogan highlighting the importance of this sector. POLITICAL SCIENCE Consider two countries. In Country A, power is shared among different organs of government, different levels, and social groups. All communities are given representation and participate in decision-making. In Country B, power is concentrated in the hands of a single group, and other communities are excluded from political

		Prepare a chart comparing any two countries. Include diagrams showing government structure, and explain horizontal and vertical power sharing. Use colours, arrows, and proper labels	In addition, the system of reservation ensures representation of Scheduled Castes (SCs), Scheduled Tribes (STs), and women in political institutions. Political parties and pressure groups also play an important role in sharing power. This system helps in maintaining unity, democracy, and stability in the country. Read the case carefully and answer the questions. 1. Identify any two forms of power sharing mentioned in the case. 2. Why is power sharing important in a country like India? 3. How does reservation help in power sharing? 4. Give one example of horizontal power sharing.	participation. As a result, Country B faces frequent conflicts, lack of trust, and slow development, whereas Country A enjoys peace, stability, and growth. Analyse the situation carefully and answer the questions. 1. Which country follows a more democratic system and why? 2. What problems arise when power is concentrated in one group? 3. How does power sharing promote unity and development? 4. Suggest one measure to improve the situation in Country B.
6.	ART INTERGRATED	COLLABORATION WITH STATE : MIZORAM / NAGALAND		
6.1	ENGLISH	Conduct a comparative analysis of the states of Madhya Pradesh, Mizoram, and Nagaland. Present your findings in a well-structured project and conclude by explaining what these states can learn from one another.” HEADINGS FOR THE PROJECT Students must organize their project in the following sequence: 1. Cover Page		

Title of the project

Name of the student

Class & Section

School name

Subject

Academic session

2. Certificate of Completion

As provided by the school

3. Acknowledgement

Expression of gratitude to teacher, school, and parents

4. Index

List of topics with page numbers

5. Introduction

Brief overview of India's diversity

Introduction to the three states

6. Main Content (Comparative Study under the following sub-headings):

A. Food

•Staple food of each state

•Popular traditional dishes

•Special dishes prepared during festivals

*** Similarities and differences in food culture**

B. Dresses

	•Traditional attire of men and women •Occasions when traditional dresses are worn •Unique features or identity of each state’s dress C. Festivals •Major festivals celebrated in each state •Cultural or religious significance •Ways of celebration (rituals, dances, food, etc.) D.Poets and Authors and Their Contribution •Famous poets and writers from each state •Their notable works •Themes of their writings •Contribution to literature and culture E. Geographical Conditions •Location (region, neighboring states) •Climate (temperature, rainfall, seasons) •Landforms (plateaus, hills, forests, etc.) •Natural resources •How geography affects lifestyle, occupation, and food F. Music and Dance Forms • Traditional folkdances • Traditional Music 7. Comparative Analysis Table / Chart (Recommended)
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		8. Conclusion 9. Key findings What these states can learn from each other 10. Bibliography Books, websites, and other sources referred GENERAL INSTRUCTIONS The project must be handwritten on A4 size sheets. Maintain neatness, proper margins, and legible handwriting. The project should be 10–15 pages long. Use headings and subheadings clearly. Include relevant facts, examples, and comparisons. Add maps, pictures, or charts to enhance presentation (optional but recommended). The content should be original and in your own words. Ensure correct grammar and formal language. Highlight similarities and differences clearly. The conclusion must include your personal opinion. Submit the project on time as per school instructions.
6.2	HINDI	कला समेकित परियोजना कार्य- मिजोरम एवं नागालैंड का मध्य प्रदेश के साथ निम्नलिखित बिंदुओं पर तुलनात्मक अध्ययन- 1. लेखक एवं कवि 2. नृत्य एवं संगीत 3. त्योहार 4. वेशभूषा 5. खान पान 6. कला कार्य (नोट - A4 साइज पेपर पर कीजिए)
	SANSKRIT	विषय: - नागालैण्ड-मिजोरम राज्ययोः संस्कृतिं, वेशभूषां, उत्सवान् वा आधृत्य एकं चित्रं रचयन्तु। ततः तस्य चित्रस्य विषये संस्कृतभाषया पञ्च वाक्यानि लिखन्तु। <i>संकेतः</i>

		• लोकनृत्यं • पारम्परिकवस्त्राणि • उत्सवाः (जैसे – Hornbill Festival) अथवा नागालैण्ड अथवा मिजोरम् राज्ययोः कस्यचित् एकस्य विषयस्य (भाषा, भोजनं, नृत्यम्, उत्सवः) विषये १० वाक्यानि संस्कृतभाषया लिखन्तु।
6.3	MATHS	In Mizoram, bamboo crafts often use repeating straight-line patterns. A student designs a pattern where: • Each step right (x) increases height (y) by 2 units • When $x=0$, $y=3$ Answer: 1. Form the linear equation representing the pattern 2. Plot the equation on a graph paper 3. What kind of line is formed? During a festival in Nagaland, a stall sells handmade items. • Cost of 1 item = ₹50 • Fixed decoration charge = ₹100 Answer: 1. Form a linear equation between number of items (x) and total cost (y) 2. Find total cost for 5 items 3. Plot the graph and identify the y-intercept
6.4	S.ST.	Study the culture, traditions, and festivals of Mizoram / Nagaland Analyze geographical features and their impact on lifestyle and occupation Explore major tribes, languages, and food habits Examine economic activities (agriculture, handicrafts, tourism) Compare education and development indicators with your state

		Highlight government initiatives for regional development Include map work, visuals, and case studies Conduct group research and present findings creatively (charts/models/PPT)
6.5	PHYSICS 1. In Mizoram, beautiful bamboo lamps are made with small holes and patterns. When a bulb is placed inside, patterns of light and shadow appear on the wall. Answer: 1. Why do these patterns form on the wall? 2. What does this show about how light travels? 3. If the lamp is moved farther from the wall, how will the pattern change? 2. Draw a festival scene with colored lights Show how different objects reflect different colours Label which colours are absorbed and reflected 3. Traditional jewelry in Nagaland often uses glass beads and shiny stones that sparkle in sunlight. Answer: 1. Why do these beads appear bright and sparkling? 2. What happens to light when it enters and exits the bead? 3. Name the phenomenon responsible for this effect. CHEMISTRY Project: "Colors of the Northeast: Chemistry in Traditional Dyes" Concept: Explore natural dyes used in Nagaland's textiles (e.g., Naga shawls) and Mizoram's traditional attire (e.g., Puan). Link them to Chemistry concepts like pH indicators, extraction, and chemical properties of dyes.	

	BIOLOGY	Project Outline: - Research natural dyes (plants, minerals) used in Nagaland and Mizoram art. - Explain the chemistry behind color formation (e.g., anthocyanins, tannins). - Create a display showcasing dyes, their chemical basis, and traditional art. Example: Compare how turmeric (curcumin) is used in both cultures for dyeing and its pH-sensitive color change. Using the traditional lifestyle of Mizoram, draw a food plate representing local foods (rice, bamboo shoots, vegetables, fish). Question: Identify the nutrients present in this diet and explain how they support different life processes like growth, energy, and repair.
7	IT	1. Prepare a poster on “Barriers of effective communication” and ways to overcome them. 2. List 5 personal strengths and 3 areas for improvement in yourself.

NOTE : Holiday homework hones the skills of creativity , giving them real life scenarios, undertake logical reasoning which helps students to express, relate & draw conclusions.