

INTERDISCIPLINARY PROJECT

CLASS – X (2025-26)

INCREDIBLE INDIA

INSTRUCTIONS FOR INTERDISCIPLINARY PROJECT SUBMISSION

PASTE PASSPORT
SIZE PHOTO IN
SCHOOL UNIFORM (IF
AVAILABLE)

Guidelines for the project:

1. **ALL PAGES MUST BE ARRANGED IN ORDER AND NEATLY FILED IN A SINGLE RING FILE OR FOLDER.** Do not submit loose pages or multiple files.
2. Write one side of the File paper only.
3. Think original, do experiments and collect data by yourself with guidance of your family members, friends and teachers.
- 4.. This project is compulsory for all students.
5. Submit your completed project to the respective class teacher

Note: - This project will be under internal assessment.

INTRODUCTION

- 1.Name of the Student:
2. Roll No:
3. Class and Section :
- 4.Name of the School :
5. Theme:
6. Title of the Project:
7. Linked Subjects:



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S.NO	TOPICS	FROM PAGE TO	PAGE	REMARKS
1	Acknowledgement			
2	Objective of the Project			
3	My learning from the Project			
4	Bibliography			
5	English			
	Hindi			
	Maths			
	Science			
	Social Science			
	French			
	Sanskrit			
6	Conclusion			



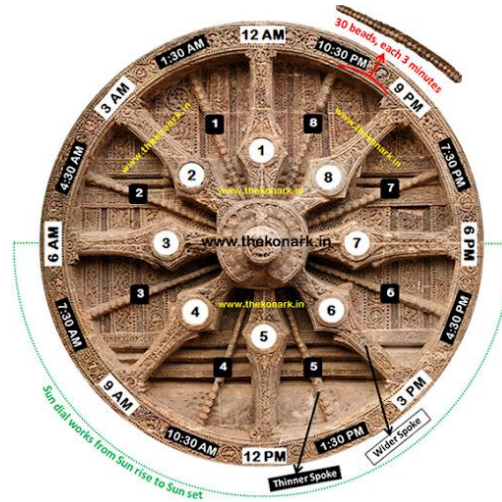
SUBJECT	CONTENT/ WORK TO BE DONE
ENGLISH	<p>Activity: "Travel Brochure"</p> <ul style="list-style-type: none"> • Taking help from the unit Glimpses of India, find about any one of the places mentioned in the unit and research it's <ul style="list-style-type: none"> - Cultural heritage - Historical landmarks - Natural beauty - Cuisine • Create a travel brochure highlighting: <ul style="list-style-type: none"> - Must-visit places - Unique experiences - Local traditions - Tips for travellers <p>Tips:</p> <ul style="list-style-type: none"> • Use vivid descriptions and imagery. • Include high-quality visuals (pictures, maps). • Make it engaging and informative.
HINDI	<p>इंक्रेडिबल इंडिया - पाठ तांतारा वामीरो (अंडमान और निकोबार द्वीप समूह)</p> <p>*कार्य:*आपको अंडमान और निकोबार द्वीप समूह की सुंदरता और विशेषताओं को प्रदर्शित करने के लिए एक ब्रोशर बनाना होगा। इस ब्रोशर में आप निम्नलिखित बिंदुओं को शामिल कर सकते हैं:</p> <ul style="list-style-type: none"> - अंडमान और निकोबार द्वीप समूह के प्रमुख दर्शनीय स्थल - द्वीप समूह की प्राकृतिक सुंदरता और वनस्पतियों और जीव-जन्तुओं की विविधता - द्वीप समूह की सांस्कृतिक विशेषताएं और आदिवासी समुदायों की जीवनशैली - द्वीप समूह में उपलब्ध गतिविधियाँ और एडवेंचर स्पोर्ट्स <p>*ब्रोशर के आवश्यक तत्व:*</p> <ol style="list-style-type: none"> 1. आकर्षक कवर पेज 2. द्वीप समूह की सुंदरता को प्रदर्शित करने वाले चित्र 3. जानकारीपूर्ण और संक्षिप्त विवरण 4. रंगीन और रचनात्मक डिज़ाइन <p>*मूल्यांकन के मानक:*</p> <ol style="list-style-type: none"> 1. ब्रोशर की रचनात्मकता और आकर्षण 2. जानकारी की गहराई और सटीकता 3. डिज़ाइन और प्रस्तुति की गुणवत्ता

-नोट: कक्षा में होने वाली ASL गतिविधि में प्रस्तुति की जाएगी जिसका अंकन होगा करें।

MATHS

THE SUN TEMPLE AT KONARK - CIRCLES AND TIME MEASUREMENT

The Sun Temple at Konark, Odisha, built in the 13th century, is designed in the form of a chariot with 12 pairs of wheels representing a sundial.



Background Information:

- The temple has 24 elaborately carved wheels, each 3 meters in diameter.
- The wheels function as sundials, with the spokes creating shadows that can tell the time.
- Each wheel has 8 major spokes and 8 minor spokes, dividing the wheel into 16 equal parts.
- The temple is oriented precisely so that the first rays of the sun fall on the main entrance.

Based on the given information, answer the following questions:

1. Explore and explain the procedure of calculating specific time in ancient times using the Sundial at Konark Temple.
2. If each of the 24 wheels of the Konark Sun Temple has a diameter of 3 meters. Calculate the circumference of each wheel.
3. Each wheel has 16 spokes (8 major and 8 minor), dividing it into equal parts. Calculate: a) The angle between adjacent spokes, b) The length of each spoke if it extends from the center to the rim
4. The 24 wheels of the temple represent the 24 hours of the day. If the shadow of a spoke moves at a constant rate throughout the day, how many degrees does the shadow move per hour?
5. The temple is designed to track time using the sun's position. If one complete rotation of the shadow on a wheel represents 24 hours, how long does it take for the shadow to move from one spoke to the adjacent spoke?

SCIENCE

"EXPLORING INDIA'S BRILLIANCE WITH SCIENTIFIC VISION"



INCREDIBLE INDIAN

culture and science are deeply intertwined, reflecting a rich legacy of knowledge and tradition. Ancient Indian culture nurtured scientific thinking through texts like the Vedas and discoveries in fields such as mathematics, astronomy, and medicine. Practices like yoga and Ayurveda, rooted in Indian culture, are now respected worldwide for their scientific benefits. Temples and architecture also showcase advanced engineering and astronomical alignment. Today, India continues this legacy with achievements in space exploration, medicine, and technology, blending traditional wisdom with modern scientific progress.

PHYSICS

1. Monuments and Reflection of Light

- **Taj Mahal:** The white marble reflects sunlight differently at dawn, noon, and dusk, demonstrating reflection of light.
- **Golden Temple:** The reflection of the temple in the water beautifully demonstrates the laws of reflection.

Based on the above information, find out the answers to the following questions with suitable examples.

1. How does the changing reflection of sunlight on the Taj Mahal demonstrate the principles of reflection of light?
2. Which Indian monuments or temples show evidence of precise light alignment? Explain how reflection or refraction is used.
3. How does the architecture of the Sun Temple in Konark reflect ancient Indian understanding of the behavior of sunlight?
4. Why does the Golden Temple appear more radiant at sunrise and sunset? Link your answer to the angle of incidence and reflection.

CHEMISTRY

1. Festivals and Fireworks (Exothermic Reactions)

- During Diwali and New Year celebrations, fireworks display combustion reactions, which are exothermic.

	<ul style="list-style-type: none"> Monuments like the Iron Pillar of Delhi are famous for not rusting – show resistance to corrosion. <p>Based on the above information, find out the answers to the following questions with suitable examples.</p> <ol style="list-style-type: none"> How does the reaction between acid rain and the marble of the Taj Mahal demonstrate a chemical reaction? Write the balanced chemical equation. Explain how fireworks used during Indian festivals like Diwali involve chemical reactions. What type of reactions are they? Why doesn't the Iron Pillar of Delhi rust easily? What does this tell us about corrosion and chemical stability? Ayurveda uses herbs that change color or form when mixed. Can you give examples where a chemical reaction is involved? <p>BIOLOGY</p> <p>1. Nutrition in Indian Food Culture</p> <ul style="list-style-type: none"> Diverse Indian cuisines reflect balanced diets: carbs (rice/roti), proteins (dal/pulses), fats (ghee/oil), vitamins (vegetables/fruits). <p>Explain how food and cuisine in different parts of India are influenced by climate and geography, giving suitable examples.</p> <ul style="list-style-type: none"> Traditional knowledge, such as Ayurveda, promotes foods that aid digestion and metabolism (e.g., turmeric, ginger, and fennel seeds). <p>2. RESPIRATION AND HIGH ALTITUDE PLACES</p> <ul style="list-style-type: none"> PLACES LIKE LADAKH OR THE HIMALAYAS REQUIRE BODY ADAPTATION TO LOW OXYGEN LEVELS – LINK TO AEROBIC AND ANAEROBIC RESPIRATION. <p>YOU CAN EXPLAIN HOW PEOPLE IN HIGH-ALTITUDE INDIAN REGIONS DEVELOP LARGER LUNG CAPACITIES OVER GENERATIONS.</p>
SOCIAL SCIENCE	<p>Lok Sabha Elections in the states of Andhra Pradesh and Odisha.</p> <p>A. Compare the election turnout in both these states and present the data in the form of a pie-diagram on the basis of the following criteria:</p> <ul style="list-style-type: none"> Total population of the states Percentage of population eligible for voting in both the states Percentage of new voters Percentage of women voters <p>B. Prepare a report in 100 words each on the social, educational and political changes that have taken place in these states in the last 10 years.</p> <p>C. Prepare an interesting crossword puzzle on election. Keep the following rules in mind while preparing the crossword.</p> <ul style="list-style-type: none"> 8 words Across and 8 words Down “Nohanging words”- words that do not connect to other words

	<ul style="list-style-type: none"> • Every letter should correspond to both an Across word and a Down word • If the answer to a clue is a phrase rather than a single word, there should be no spaces between the words. ❖ Digital tools that can be used: Canva, Microsoft Publisher, Adobe
FRENCH	1. Make a project on the impact of French colonialism on Indian culture.
SANSKRIT	<ul style="list-style-type: none"> • संस्कृत श्लोक या सूक्तियाँ (भारत की महिमा पर) <p>भारत देश की विविधता, संस्कृति, ज्ञान और आध्यात्मिकता पर आधारित 5 संस्कृत श्लोक या सूक्तियाँ लिखिए:</p> <ul style="list-style-type: none"> • भारत के प्रतीक-चिन्हों के चित्र बनाइए और उनके नीचे संस्कृत में विवरण लिखिए।

