

# INTERDISCIPLINARY PROJECT

CLASS – IX (2025-26)

## CLIMATE CHANGE

### 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: .....



### INDEX

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><b>Activity-Carbon Footprint</b>  <b>Activity: "Eco-Friendly Lifestyle Brochure"</b>  <b>Instructions:</b></p> <ul style="list-style-type: none"> <li>• Research ways to reduce your carbon footprint.</li> <li>• Create a brochure with tips and strategies for: <ul style="list-style-type: none"> <li>- Sustainable living</li> <li>- Energy conservation</li> <li>- Waste reduction</li> <li>- Eco-friendly transportation</li> </ul> </li> <li>• Include: <ul style="list-style-type: none"> <li>- Visuals (pictures, diagrams)</li> <li>- Clear headings and bullet points</li> <li>- Persuasive language</li> </ul> </li> </ul> <p><b>Tips:</b></p> <ul style="list-style-type: none"> <li>• Use catchy slogans and headings.</li> <li>• Include statistics and facts.</li> <li>• Make it visually appealing</li> </ul>
HINDI	<p><b>कीचड़ का काव्य (क्लाइमेट चेंज)</b>  <b>कार्य:*</b>  आपको कीचड़ का काव्य पाठ के आधार पर क्लाइमेट चेंज के मुद्दे पर एक पोस्टर तैयार करना होगा। इस पोस्टर में आप निम्नलिखित बिंदुओं को शामिल कर सकते हैं:</p> <ul style="list-style-type: none"> <li>- क्लाइमेट चेंज के प्रभाव और इसके कारण</li> <li>- पर्यावरण संरक्षण के महत्व और तरीके</li> <li>- कीचड़ का काव्य पाठ के संदेश को क्लाइमेट चेंज के संदर्भ में व्याख्या करना</li> </ul> <p><b>* क्लाइमेट चेंज के मुद्दे पर जागरूकता बढ़ाने वाला संदेश</b></p> <p><b>*दिशा निर्देश:*</b></p> <ol style="list-style-type: none"> <li>1. पोस्टर को साफ और सुव्यवस्थित तरीके से बनाएं।</li> <li>2. पोस्टर में कविता की पंक्तियों को शामिल करें जो क्लाइमेट चेंज के मुद्दे से संबंधित हों।</li> <li>3. A3 पेज पर बनाएं।</li> </ol> <p><b>*मूल्यांकन के मानक:*</b></p> <ol style="list-style-type: none"> <li>1. पोस्टर की रचनात्मकता और आकर्षण</li> <li>2. जानकारी की गहराई और सटीकता</li> <li>3. डिज़ाइन और प्रस्तुति की गुणवत्ता</li> </ol> <p><b>विशेष नोट:</b> कक्षा में होने वाली ASL गतिविधि में इसकी प्रस्तुति और मूल्यांकन होगा</p>

**MATHS****Monsoon Patterns in India**

The following table shows the annual monsoon rainfall (in mm) across four regions of India over a 5-year period:

Year	North India	South India	East India	West India	All-India Average
2019	952	1142	1356	842	1073
2020	876	1245	1298	768	1047
2021	798	1189	1402	895	1071
2022	723	1052	1287	912	994
2023	685	987	1246	789	927

Answer the following questions:

1. Draw line graphs (on graph sheets) representing the rainfall trends for each region over the 5 years. What climate pattern can you identify from this visualization?

2. Calculate the percentage change in all-India average rainfall from 2019 to 2023.

Ans: Percentage change =  
=

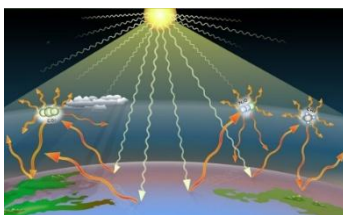
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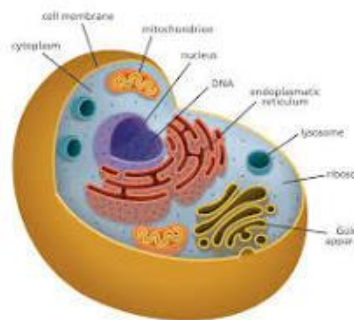
Interpretation: The all-India average rainfall has

.....(increased/decreased) by .....% from 2019 to 2023.

3. Which region shows the highest variability in rainfall? Calculate the range for each region to determine this.

4. Calculate the mean rainfall for each region over the 5-year period. Which region receives the maximum and minimum average rainfall?

**SCIENCE****"Tracking Climate : A Scientific Perspective"**



## PHYSICS

### 1 Conceptual Link: Motion & Climate

- Explain how wind is a form of motion.
- Use concepts of distance, displacement, speed, and velocity to describe how winds move.
- Connect motion equations to changing wind patterns due to temperature differences.

### 2. Case Study: Indian Monsoons

- Use data or graphs (can be simple and illustrative) to show how monsoon patterns have shifted over the years (e.g., delayed arrival, reduced rainfall).

### 3. Impact of Climate Change

- How does global warming change the speed and direction of wind motion?

## CHEMISTRY

### 4. Explain how increased global temperatures affect:

- Melting glaciers (solid → liquid)
- More evaporation (liquid → gas)

- Less snowfall and more rainfall

### Greenhouse Gases and Gaseous State

- Show how gases like CO<sub>2</sub> and CH<sub>4</sub> trap heat and cause warming.

## BIOLOGY

### 5. Write the effect of Climate change (increased temperature and carbon dioxide) on Plant Cells and animal cells.

- Draw diagrams of a plant cell and plasmolysed plant cell, giving reasons for the plasmolysis.
- Explain the effect of climate change on Cellular processes such as photosynthesis and respiration.
- Write a creative Story from the perspective of a cell living in a climate changed world. Describe how its environment and functions have changed.

## SOCIAL SCIENCE

- A. Create a Climate Change Story: Use your creativity to draw a comic strip about climate change. The story should highlight the challenges faced by characters due to climate change and how they work together to find solutions. It should also include positive messages and emphasize the importance of individual actions.

**B .Students have to make a weather calendar for one week. They can take the help of a newspaper, Google weather apps, radio, or television while doing this activity. They have to use different pictures of symbols to show different types of Weather.**

DAY	1	2	3	4	5	6	7
DATE							
TEMPERATURE							
WIND							
AIR PRESSURE							
HUMIDITY							
WEATHER							
PICTURE SYMBOL							

**After getting the data, write a short paragraph on what changes you see in the table. From this, what do you understand about Weather?**

#### **FRENCH**

**1. Make a poster with a slogan on the topic of climate change effects on French agriculture and tourism in French.**

