



# Subodh Public School, Near Airport, Sanganer, Jaipur

Session: 2026 – 2027

## Holiday Homework

Class : Flyers 2



Dear Students,

The summer break provides an excellent opportunity for self-learning, creative exploration, and skill development beyond regular classroom activities. To ensure productive engagement during the holidays, the school has prepared a Holiday Enrichment Assignment aimed at promoting experiential learning and holistic development.

The assignments are designed to strengthen students':

- ❖ Creative and analytical thinking
- ❖ Communication abilities
- ❖ Research and presentation skills
- ❖ Practical application of knowledge in daily life

Students are expected to complete all tasks with dedication, discipline, and originality.

- ❖ Guidelines for Submission
- ❖ Complete all work neatly and systematically.
- ❖ Ensure originality and creativity in every assignment.
- ❖ Use eco-friendly and recyclable materials wherever possible.
- ❖ Submit the work in a properly labelled folder/file.
- ❖ Clearly mention Name, Class, Section, Roll Number, and Subject on all submissions.
- ❖ Maintain neat handwriting unless otherwise instructed.
- ❖ Support your work with relevant drawings, charts, pictures, tables, and creative presentation.
- ❖ All assignments must be submitted in the first week after reopening of the school.

*We wish you a meaningful, enjoyable, and enriching summer vacation.*

### Subject : English

#### Project Theme: "The Soul of the Soil"

1. "As a travel curator for a premium tourism agency, design an illustrative tri-fold brochure titled

#### 'Vistas of Heritage'.

Choose one of the following regions—

- ❖ Assam
- ❖ Coorg
- ❖ Nagaland
- ❖ Rajasthan



Use artistic elements to showcase how its unique geography and cultural traditions are reflected in your chosen lesson. How can you blend visual art with descriptive prose to persuade a traveller to visit?"

2. **Traveler's Map:** A stylized, artistic map highlighting key locations mentioned in the book. Short captions for each "stop" on the map.

- ❖ The 'Why' Factor: Use a specific color palette (e.g., earthy tones for Rajasthan, lush greens for Coorg). A persuasive "Call to Action" summarizing the emotional core of the chapter

## **विषय : हिंदी** **परियोजना कार्य**

1. "ततार्रा-वामीरो कथा" पाठ पढ़िए तथा उसके आधार पर निकोबार द्वीप समूह एवं कहानी से संबंधित जानकारी एकत्र कर रचनात्मक परियोजना कार्य तैयार कीजिए।
    - ❖ ततार्रा एवं वामीरो का 3-4 पंक्तियों में परिचय लिखिए।
    - ❖ कथा चित्र प्रस्तुति - कहानी के 3 मुख्य दृश्य चित्रों द्वारा दर्शाइए। प्रत्येक चित्र के नीचे 1-2 पंक्तियाँ लिखिए।
    - ❖ कहानी से मिली सीख - कहानी से मिली 3-4 मुख्य सीख/संदेश लिखिए
    - ❖ निकोबार द्वीप समूह - निकोबार द्वीप समूह के बारे में 5 तथ्य लिखिए।
  2. रचनात्मक गतिविधि (निम्न में से कोई एक)
    - ❖ मुखौटा निर्माण /
    - ❖ स्वरचित कविता लेखन /
    - ❖ पोस्टर निर्माण /
    - ❖ सीख का वृक्ष
- (नारियल का पेड़ बनाकर उसकी पत्तियों पर लिखें - "प्रेम", "त्याग", "मानवता", "साहस" आदि)
3. समुद्री थीम सजावट (रंगों / चित्रों द्वारा प्रस्तुत करें)
  4. "यदि मैं कहानी का पात्र होता/होती..." इस विषय पर 5-6 पंक्तियाँ लिखिए।



## **विषय : संस्कृत**

1. श्लोक लेखन - भगवद्गीता के कोई 5 श्लोक लिखिए तथा उनका हिंदी अर्थ लिखिए।
2. परियोजना कार्य-
  - निम्न में से किसी एक विषय पर चार्ट/प्रोजेक्ट बनाइए:
    - ❖ संस्कृत भाषा का महत्व
    - ❖ भारत के प्रमुख संस्कृत विद्वान
    - ❖ पंचतंत्र की कहानियाँ
    - ❖ योग एवं आयुर्वेद में संस्कृत का योगदान



## **Subject: French**

***"Penser, Créer et Maîtriser le Français" (Think, Create & Master French)***

### **Blog / Journal de Vacances**

Write 3 blog entries (100-120 words each) which includes:

- ❖ Where you went / what you did
- ❖ Experiences & opinions
- ❖ Emotions

Use:

- ❖ Passé composé
- ❖ Imparfait (for descriptions)





## 2. Chapter: Water Resources

Locate and label:

- Dams: Salal, Bhakra Nangal, Tehri, Rana Pratap Sagar, Sardar Sarovar, Hirakud, Nagarjuna Sagar, Tungabhadra

## 3. Chapter: Agriculture

Identify and label:

- \*Major areas of Rice & Wheat\*
- Largest/Major producer states of: Sugarcane, Tea, Coffee, Rubber, Cotton, Jute

## 4. Chapter: Minerals and Energy Resources

Locate and label:

- Iron Ore Mines: Mayurbhanj, Durg, Bailadila, Bellary, Kudremukh
- Coal Mines: Raniganj, Jharia, Bokaro, Talcher, Neyveli
- Oil Fields: Digboi, Naharkatia, Mumbai High, Bassien, Kalol, Ankaleshwar
- Thermal Power Plants: Namrup, Singrauli, Ramagundam
- Nuclear Power Plants: Narora, Kakrapara, Tarapur, Kalpakkam

## 5. Chapter: Manufacturing Industries

Locate and label:

- Cotton Textile Industries: Mumbai, Indore, Surat, Kanpur, Coimbatore
- Iron & Steel Plants: Durgapur, Bokaro, Jamshedpur, Bhilai, Vijaynagar, Salem
- Software Technology Parks: Noida, Gandhinagar, Mumbai, Pune, Hyderabad, Bengaluru, Chennai, Thiruvananthapuram

## 6. Chapter: Lifelines of National Economy

Locate and label:

- Major Ports: Kandla, Mumbai, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Visakhapatnam, Paradip, Haldia
- International Airports: Amritsar, Delhi, Jaipur, Mumbai, Kolkata, Chennai, Hyderabad, Bengaluru

**Note: Refer to NCERT Class X Geography & History Textbooks for exact locations.**

## *Subject : Artificial Intelligence*

### ❖ Theme: Innovating for a Smarter Future

**Task 1 :** Choose a different real-life project (e.g., planning a school annual day or organizing a football match).

Map your project to the 6 stages of the AI Project Cycle mentioned in the text: Problem Scoping, Data Acquisition, Data Exploration, Modelling, Evaluation, Deployment.)

Briefly describe what you would do in each stage for your chosen project.

**Task 2:** The "Domain Detective" (AI Domains)

The Scenario: AI models are categorized into three main domains based on the data they use: Statistical Data, Computer Vision (CV), and Natural Language Processing (NLP).

Identify which AI domain is being used in the following futuristic scenarios and explain why based on the definitions in the text:

Scenario A: A smart mirror that scans your face to detect if you are feeling stressed.

Scenario B: A chatbot that translates your spoken Hindi into written French in real-time.

Scenario C: A website that analyzes the past 10 years of rainfall data to predict next year's crop yield.

**Task 3:** "Bioethics" in the Hot Seat (Case Study Analysis)

The Scenario: Read the case study in the handbook about the AI algorithm used for hospital resource allocation. It inadvertently harmed patients from the "Western region" because it was trained on healthcare expense data instead of actual illness.

Task: Write a short "Correction Report" for the company. Which of the four principles of bioethics (Respect for Autonomy, Do No Harm, Maximum Benefit, Justice) were violated?. Suggest one specific change to their Data Acquisition stage to make the model more ethical.

**Task 4:** Designing an "Ethical Framework"

The Scenario: Frameworks are step-by-step guides that help us solve problems and ensure our choices do not cause unintended harm.

Task: Imagine you are building an AI to help teachers grade student essays. Design a simple Value-based Ethical Framework for your AI. List three factors that might unknowingly influence the AI's "decision-making" (Bias). Explain how you will ensure "Justice" (fairness) for students from different backgrounds.

**Subject : Data Science / Statistics**

Hello future Data Scientists! Summer is the perfect time to look at the world through the lens of data. This assignment is designed to help you move beyond just "calculating numbers" and start "telling stories" with data. Let's dive in!

**Section 1:** Fun Learning Activities

- The Dice Experiment: Roll a pair of dice 30 times. Record the sum of the numbers in each roll. Calculate the Mean and Median of your results. Does the "average" roll match what you expected?
- The Human Subset Challenge: Gather a group of 10 people (family/friends). Create subsets based on different criteria: (e.g., Subset A: People wearing glasses, Subset B: People over 5 feet tall). Find out if anyone belongs to both subsets!

**Section 2:** Practice Work

- Interpreting Trends: Find a "Two-way Frequency Table" in a newspaper or online (e.g., sports stats or weather data). Write a 3-line summary explaining the strongest correlation you see.
- The "Spread" Analysis: You are given two sets of cricket scores:
  - ❖ Set A: 48, 50, 52
  - ❖ Set B: 10, 50, 90

Calculate the Mean for both. Then, explain why Standard Deviation is necessary to understand which player is more "consistent."

- MAD Math: Pick 5 items in your kitchen and check their weight (in grams). Calculate the Mean Absolute Deviation to see how much the weights vary from the average.

**Section 3:** Creative Task

- Infographic Poster: Create a colorful A3-sized poster titled "The Anatomy of Data." Use diagrams to explain the difference between a Two-way Frequency Table and a Relative Frequency Table. Use real-world examples like "Subject Preference vs. Gender" in your class.

**Section 4:** Real-Life Application

- Household Data Audit: Create a Two-way Relative Frequency Table based on your family's screen time.
  - ❖ Rows: Family Members (Mom, Dad, You, Sibling).
  - ❖ Columns: Device Type (Phone, TV, Laptop).

Convert the counts into percentages (relative frequency) and identify who is the "Digital Champion" of the house.

**Section 5:** Reading / Research Task

- Standard Deviation in Real Life: Research how "Standard Deviation" is used in the stock market or by weather forecasters to predict risks. Write a one-page report on your findings.

**Section 6:** Parent/Family Involvement Task

- The "Average" Family Meal: Sit with your parents and list the costs of the last 7 dinners. Calculate the Mean cost. Discuss with them how "Outliers" (like an expensive Sunday brunch) can change the Mean and why the Median might be a better reflection of daily spending.)

**INTRODUCTION TO FINANCIAL MARKETS (IFM)**

PROJECT : "Journey of a Company to the Stock Market"

- ❖ Prepare a handwritten project (10-12 pages) covering in a black colour file-
- ❖ Meaning of Primary Market
- ❖ Meaning and Types of IPO
- ❖ Process of issuing shares through IPO
- ❖ Role of SEBI in protecting investors
- ❖ Any one recent IPO (details like company name, issue price, purpose)
- ❖ Advantages & disadvantages of investing in IPO

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