

**ST. MARK'S SR. SEC. PUBLIC SCHOOL, JANAKPURI**

**HOLIDAY HOMEWORK**

**CLASS X (SESSION 2023-24)**

**ENGLISH**

**PHOTO JOURNAL AND TRAVEL BROCHURE**

**CHAPTER: THE GLIMPSES OF INDIA (FIRST FLIGHT)**

**MADAM RIDES THE BUS (FIRST FLIGHT)**

**MATERIAL REQUIRED:** Pen, paper, glue, decorative material, scrap file.

Photo journals are a combination of a photo album with a diary. It is a record of what you have experienced over a period of time. You can use both words and photos to document time. The photo journal can have written entries supported by relevant photos about routine and/ or extraordinary occurrences.

**METHODOLOGY:** Read “The Glimpses Of India “and “Madam Rides The Bus”. Take inspiration and cues from the units.

Create a ‘Photo Journal’ describing your visit to both Andaman or Nicobar Islands and Lakshadweep. Create a ‘Travel Brochure’ with itinerary to visit your dream destination of the above mentioned places explain your modus- operandi and planning stage for the visit. The information supported by pictures and paragraphs can have the description of the budget, tourists attractions, tribal population and culture, historical significance, flora and fauna, local cuisine etc. Also write a review about these places, how you would like to suggest it to others.

**Make the scrap file as interesting and decorative as possible using your creativity and imagination.**

- Assignments uploaded on the portal for the following chapters :
  - A Letter to God
  - Nelson Mandela
  - Dust of Snow
  - Fire and Ice
  - The Thief’s Story
  - Triumph of Surgery

The students are required to complete the assignments in their notebooks and submit it after the summer vacations.

## HINDI

- अंडमान निकोबार द्वीप समूह के एक छोटे से द्वीप पर आधारित कथा 'ततौरा वामीरो' एक ऐसी कथा जो मानवीय संबंधों को स्थापित करती है और यह एकता तथा वह आत्मीयता का संदेश भी देती है। पाठ्यक्रम से संबंधित इस कथा के सार के माध्यम से मिलने वाले संदेश का वर्णन करते हुए, मुख्य बिंदुओं पर प्रकाश डालें और उससे जुड़ी उस आदिवासी जाति की वेशभूषा, पशु-पर्व, नृत्य-संगीत और प्रकृति का सुन्दर चित्र स्वयं बनाकर कथा का वर्णन करें।

**निर्देश :- संपूर्ण कार्य A3 SHEET पर पूर्ण करें।**

**प्रोजेक्ट को आकर्षक बनाने का प्रयास करें।**

- कक्षा दसवीं में दिए गए PA 1 से संबंधित विषय पोर्टल पर अपलोड कर दिए गए हैं ।
  - स्पर्श(गद्य) – बड़े भाई साहब (प्रेमचंद ), डायरी का एक पन्ना (सीताराम सेकसरिया ) ।
  - स्पर्श(पद्य) – साखी (कबीर) , पद (मीरा) ।
  - संचयन – हरिहर काका (मिथिलेश्वर) ।
  - व्याकरण - रचना के आधार पर वाक्य रूपांतरण ,मुहावरे ।

यह संपूर्ण कार्य अभ्यास पुस्तिका पर छात्रों द्वारा पूर्ण किया जाएगा।

## MATHEMATICS

### ➤ **MATHS LAB ACTIVITIES**

**ACTIVITY 1-** To obtain the conditions of consistency of a system of linear equations in two variables by graphical method.

**ACTIVITY 2-** To verify graphically that  $x=1$  and  $x=3$  are the two zeroes of the quadratic equation  $x^2 - 4x + 3$ .

**ACTIVITY 3-** To verify the fundamental identity  $\sin^2\Theta + \cos^2\Theta = 1$ .

**ACTIVITY 4-** To show that the sum  $S_n$  of first  $n$  terms of an Arithmetic Progression (A.P.) with first term 'a' and common difference 'd' is  $S_n = \frac{n}{2} [2a + (n - 1) d]$ .

**ACTIVITY 5-** To verify the Basic Proportionality Theorem i.e. If a line is drawn parallel to one side of a triangle to intersect the other two sides in two distinct points, then the other two sides are divided in the same ratio.

### ➤ **ART INTEGRATION PROJECT**

Q1. Equations representing roads in Andaman and Nicobar Islands are given below:

'Andaman Trunk Road'  $6x + 3y = 21$

National Highway 4  $4x + 2y - 14 = 0$

North-South Road in Great Nicobar  $y = 10 - 2x$

Foreshore (MA) Road  $5x - 4y = 11$

There is a road with two different names. Which one is that?

Find the location of *Delanipur Junction* which is on *NH4* and *Foreshore (MA) road*.



Q2. A 240-km broad-gauge railway track will soon be laid, connecting Diglipur in North Andaman Island, with its Capital, Port Blair. Which of the following may be the equations of the railway tracks?

- a.  $3x + 5y = 7$   
 $3y + 5x = 7$
- b.  $5x = 2y - 4$   
 $6y = 15x + 12$
- c.  $6x = 3y + 21$   
 $5y = 10x - 2$



**General Instructions:**

1. Find the values of  $a_1/a_2$ ,  $b_1/b_2$ ,  $c_1/c_2$  to determine whether the roads (lines) are parallel or intersecting or co-incident.
2. In case the roads are intersecting, draw them on the graph and mark the point of intersection.
3. Use an A3 sheet and paste the graph paper on it.

➤ **MATHS EXHIBITION 2022-23**

Prepare a model/game/ project on any one of the following topics:

1. Height & Distance as an application of Trigonometry
2. Real World Applications of Surface Area & Volume
3. Significance of H.C.F & L.C.M in real life
4. Practical Applications of Probability
5. Maths in Drones Technology

**General Instructions:**

- Project/Model/Game should be handmade.
  - Eco-friendly materials should be used.
- Assignments uploaded on the portal for the following chapters :
- Real Numbers
  - Polynomials
  - Pair of Linear Equations in Two Variables

The students are required to complete the assignments in their notebooks and submit it after the summer vacations.

**SCIENCE**

➤ **ART INTEGRATION PROJECT**

**THEME : ANDAMAN AND NICOBAR AND LAKSHADWEEP ISLANDS**  
**SUBTHEME–IMPACT OF HUMAN ACTIVITIES ON ENVIRONMENT AND NATURAL RESOURCES**

(1) The students in a group of four to five, have to make a research based project on any one of the following impacts on the environment of Andaman and Nicobar and Lakshadweep island.

1. Deforestation
2. Sand mining
3. Resource stress introduced by tourist influx
4. Water Shortage in the capital city of Port Blair
5. Climate change,
6. Natural disasters
7. Poaching
8. Mass coral bleaching events
9. Anthropogenic threats due to tourism
10. Illegal construction and mining
11. Volatile climatic factors.
12. Degradation of-soil as a resource
13. Effects on the mineral content and soil chemistry
14. Threat to natural Biogeochemical cycles
15. Global warming
16. Threat to Biodiversity (flora and fauna)

(2) For visual and performing art as a creative expression they can use forms like: Nukkad natak, Explanatory drawings, Role play, Cartoon strip, Jewelry designing, Poster making, Poetry, Slogan writing

➤ **SCIENCE EXHIBITION 2022-23**

**THEME: SUSTAINABLE DEVELOPMENT GOALS**

**SUB-THEME:**

**SDG 7-** Affordable and Clean Energy

**SDG 9-** Industry Innovation & Infrastructure

**SDG 11-** Sustainable Cities and Communication

**SDG 12-** Responsible Consumption and Production

**SDG 13-** Climate Action

**General Instructions:**

- Project/Model/Game should be handmade.
- Eco-friendly materials should be used.
  
- Assignments uploaded on the portal for the following chapters :
  - Light, Reflection & Refraction
  - Life Processes (Nutrition, Respiration, Circulation and Excretion)
  - Chemical reactions and equations

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**SOCIAL STUDIES**

➤ **ART INTEGRATION PROJECT**

(Collage and mosaic work with a variety of coloured papers and coloured printed pictures/photographs from magazines and newspapers.)

*Take one Chart Paper, divide the same into four parts and make collage using pictures/photographs from magazines and newspapers on Andaman and Nicobar Islands. The following topic to be covered on the chart paper-*

- 1. History**- Post Independence Period.
- 2. Geography**- Climate, Trade, Airport, Roads, Flora and Fauna.
- 3. Economics**- Gender discrimination, Literacy Rate, Mean years of schooling.
- 4. Political science**- Political Parties, Election system (campaign, booths).

- *As per CBSE guidelines*, students of Class X have to submit a handwritten project on **Social Issues**. Students are requested to complete this project which will be followed by a viva voice/ written assignment.

➤ **PROJECT WORK – SOCIAL ISSUES IN INDIA**

Topic: Gender Discrimination **OR** Overpopulation

● **GUIDELINES FOR SUBMITTING THE PROJECT:**

1. Use A4 size sheets
  2. It should be a handwritten project (blue or black pen should be used)
  3. You can use newspaper clippings, maps, diagrams and material from the web.
  4. Each illustration should be supported with a write-up/relevance to the topic
  5. The cover page should be written in bold letters with the topic, name and roll number
  6. Follow the sequence of pages as given below:
    - a. Acknowledgement
    - b. Index
    - c. Define the topic in detail (describe in 2 pages with illustrations)\*
    - d. Causes (illustrations)\*
    - e. The extent of impact (illustrations)\*
    - f. Who is responsible (illustrations)\*
    - g. Steps were taken by the Govt. to combat (illustrations)\*
    - h. Organisations working to help (illustrations)\*
    - i. Lessons learnt (illustrations)\*
    - j. Dos and don'ts for next time to avoid such disasters
    - k. Conclusion
    - l. Bibliography
    - m. \*Maps, pictures, graphs, etc.
    - n. Use a hard bound cover pocket file or get your project spiral bound.
- Assignments uploaded on the portal for the following chapters :
- Power Sharing
  - Development
  - Nationalism in Europe
  - Resources and Development

The students are required to complete the assignments in their notebooks and submit it after the summer vacations.