

**CONVENT OF JESUS AND MARY  
HOLIDAY HOMEWORK (2026-27)  
CLASSES IX**

---

**ENGLISH**

**I) STORIES IN THE BREEZE**

**Activity 1**– Research and write about the different varieties of hand-held fans native to the various states mentioned in the chapter, 'Winds of Change' Page 69-74 of the English textbook, Kaveri. Draw or paste pictures.

**II) SUGGESTED READING AND FOLLOW UP ACTIVITY:**

1. To Kill a Mocking Bird by Harper Lee
2. The Catcher in the Rye by J.D Salinger
3. Looking for Alaska by John Green
4. Uncle Tom's Cabin by Harriet Beecher Stowe
5. City of Djinns by William Dalrymple

**Activity 2**–

- Write a **book review** of any one of the books.
- Watch the movie 'To Kill a Mocking Bird' after reading the book.

**III) EMULATING SIKKIM!**

While the capital of India is striving to survive the hazardous air pollution that has crept into the atmosphere, another state of India has been successful in breathing green! In 2015, Sikkim declared itself the first organic state in the world and 100% plastic free.

**Activity 3 [Art Integrated Project]- Comparative Study:** Read up on how this was made possible and make a comparison between Sikkim, the green state and Delhi. What can Delhi learn from Sikkim?

Present your work in an artistically prepared file with art work, pictures, tables or graphs for comparison.

- ❖ **[Note:** All these to be submitted in A4 size sheets in a folder.]

**हिन्दी**

1. लेखक 'श्री सियारामशरण गुप्त' द्वारा रचित दो कहानियाँ - 'काकी' तथा 'कोटर और कुटीर' पढ़िए तथा उनके प्रमुख पात्रों के नाम व सचित्र सार अपने शब्दों में साहित्य पुस्तिका में लिखिए।
2. निम्नलिखित अलंकारों का सोदाहरण संक्षिप्त परिचय दीजिए -  
अनुप्रास, यमक, उपमा, रूपक, अतिशयोक्ति, पुनरुक्तिप्रकाश, मानवीकरण, उत्प्रेक्षा, दृष्टांत तथा श्लेष । (A4 आकार के पृष्ठों पर)
3. कक्षा में किए गए समस्त कार्य को दोहराइए।

## MATHEMATICS

Create a maths project on Andaman and Nicobar as a calendar activity. This project integrates Mathematics with the art, culture, and geography of the Andaman and Nicobar Islands through a functional 12-month calendar (for the academic year 2026-27). Each month features a specific math concept and an aspect of the islands.

**Project Title:** "Island Arithmetic: An Andaman and Nicobar Calendar Activity".

**Objectives:** To apply statistical, geometric, and arithmetic concepts to real-world data. To explore the geography, culture, and biodiversity of the Andaman and Nicobar Islands.

Calendar Structure (12 Months)

### January: Tourism Statistics (Data Handling & Percentages)

**Math Activity:** Represent the number of tourists (domestic vs. foreign) visiting in a year using a pie chart. Calculate the percentage increase from the previous year.

**Visual:** Picture of the Tourism Festival.

### February: Tribal Art & Symmetry (Geometry)

**Math Activity:** Analyse traditional tribal designs and identify lines of symmetry, patterns, and tessellations. Create a symmetrical rangoli pattern based on these designs.

**Visual:** Geometric patterns from Nicobarese baskets.

### March: Marine Life Measurements (Mensuration & Estimation)

**Math Activity:** Estimate the total area of mangroves vs. coral reefs using a bar graph. Use estimation to find the average size of a Green Sea Turtle found in the area.

**Visual:** Drawing of coral reefs.

### April: The Shape of Islands (Geometry - Area & Perimeter)

**Math Activity:** Choose 3 islands (e.g., North, Middle, South Andaman) and calculate their rough area using a grid mapping method (counting squares).

**Visual:** Map of the Andaman Islands.

### May: Rainfall & Temperature Data (Statistics - Mean/Mode)

**Math Activity:** Create a line graph showing monthly rainfall data for Port Blair. Calculate the mean annual temperature and range (Max – Min).

**Visual:** Rainy landscape.

### June: Tribal Art - Shapes (Geometry: Coconut Shell Craft).

**Math Activity:** Identify geometric shapes (spheres, cones, cylinders) in tribal crafts. Draw a "2D view" (plan) of a 3D canoe.

**Visual:** Pictures of coconut shell crafts.

### **July: Population Density (Ratio & Proportion)**

**Math Activity:** Calculate the population density of the Nicobar district vs. the Andaman district

Compare with mainland India.

**Visual:** A village scene

### **August: Historical Distances (Measurement - Scaling)**

**Math Activity:** Using a scale map, calculate the actual distance between Cellular Jail and Ross Island, and then to other islands.

**Visual:** A sketch of Cellular Jail.

### **September: Flora & Fauna Collage (Symmetry/Classification).**

**Math Activity:** Create a collage of 10 endemic plants/animals, grouping them by type (Bird, Mammal, and Tree) and calculating percentages for each group.

**Visual:** The Andaman Wood Pigeon.

### **October: Festivals & Dates (Time Management & Patterns).**

**Math Activity:** Create a calendar for October highlighting festive dates and identifying the number of Sundays, days of the week, and dates divisible by specific numbers.

**Visual:** A mix of local festivals.

### **November: Scuba Diving Budgeting (Arithmetic - Operations)**

**Math Activity:** Create a 3-day itinerary budget for a scuba diving trip (Cost of flights, stay, 3 dives, meals).

**Visual:** An underwater scuba picture.

### **December: Island Shapes - 3D (Solid Geometry Radhanagar Beach).**

**Math Activity:** Calculate the volume of a pile of sand and the area of a cylindrical coconut tree trunk.

Visual: The coastline.

### **Project Output Checklist:**

A3 Sheets: 12 sheets (one for each month)

Layout: Top - Artistic representation of the theme;

Bottom - Numerical calendar with the math activity shown clearly.

Accuracy: Data used must be based on genuine statistics.

**Cover Page: Title, Name, Class, School.**

**From ML AGGARWAL**

1. COORDINATE GEOMETRY MCQ page 22 to page 31 and Chapter test.
2. NUMBER SYSTEMS MCQ Page 89 to page 94 and Chapter test.

### **SOCIAL SCIENCE**

#### **"Nature's Fury: A Project on Five Natural Disasters"**

The objective of this project is to help students understand different types of natural disasters, their causes, effects, preventive measures, and the importance of disaster preparedness and safety measures.

Students are required to prepare a creative scrapbook on five natural disasters. This is a group activity (a group of five). Each student will take one disaster and child should contribute a maximum of around 8-10 pages. The project should be creative, informative, and neatly presented.

#### **Content to be Included by Each Student**

- Meaning/Definition of Disaster- Explain what a disaster is in general.
- Introduction to the Chosen Natural Disaster- Definition and brief explanation of the disaster.
- Causes of the Disaster- Natural or human-related causes leading to the disaster.
- Effects/Impact of the Disaster- Effects on human life, environment, economy, and property.
- Mitigation and Safety Measures- Preventive steps and preparedness strategies to reduce damage.
- Case Study- One real-life example of the disaster, preferably from India.
- Disaster-Prone Regions Map- A labelled map showing areas where the disaster commonly occurs.
- Include pictures and illustrations, newspaper clippings, maps, facts, and statistics related to the disaster.

#### **Criteria for Assessment:**

1. Originality
2. Creativity
3. Content
4. Team work
5. Overall Presentation

## SCIENCE

### **BIOLOGY**

1. Research and create 3D model on the assigned topic. You may use materials like air dry clay, cardboard, wires, beads, or recycled items. Label the parts clearly and prepare to explain the structure and function of your model. Models will be evaluated based on accuracy, creativity, labeling, and presentation. Submit your model on 2<sup>nd</sup> July 2026.

<b>Assigned Model</b>	<b>Roll Numbers</b>
Animal Cell	1, 11, 21, 31, 41
Bacterial Cell	2, 12, 22, 32, 42
Plant Cell	3, 13, 23, 33, 43
Nucleus	4, 14, 24, 34, 44
Endoplasmic Reticulum	5, 15, 25, 35, 45
Golgi Apparatus	6, 16, 26, 36, 46
Mitochondria	7, 17, 27, 37, 47
Chloroplast	8, 18, 28, 38, 48
Plasma Membrane (Fluid Mosaic)	9, 19, 29, 39
Microscope	10, 20, 30, 40

2. Research and write a report on the mechanisms that prevent tumour formation in the human body. Also, investigate whether plants can develop tumours and explain your findings with suitable examples. Present your report neatly on an A4 size sheet and include relevant labelled pictures or diagrams.

3. **CASE STUDY:**

**Instructions:** Complete the given case study question in your Biology notebook in a neat and well-explained manner.

A farmer, Deepa, was very happy with the harvest of amla (Indian Gooseberry) and lemons on her farm. However, she could sell only one fourth of the produce in the local market. Recognising that a significant amount of produce may be lost post-harvest, she employed a traditional yet scientifically sound method to extend the shelf life of amla and lemons. She turned perishable produce into profitable products, such as pickles and sharbat. She used the excess produce to prepare pickles, murabbas, and sharbat by adding appropriate amounts of salt, sugar, or jaggery to small pieces of fruit and their juices. These were then stored in small glass bottles for sale, helping her prevent the wastage of post-harvest produce. This shift from farming to agro-processing would strengthen food security and boost the local economy, creating a sustainable model that cuts waste while increasing her income.

**Based on the above passage answer the following questions:**

- a) Which scientific concept has the farmer applied in the preservation of the farm produce?
- b) How does the addition of high concentrations of salt and sugar create an environment that prevents the growth of spoilage-causing bacteria and fungi?
- c) Suggest a healthy recipe of this kind for food preservation.
- d) What are the scientific values addressed in this case?

**CHEMISTRY**

1. Make a Pie chart showing salt constituents in sea water. (on A4 size sheet)
2. Infographic Poster on Separation Methods. (Five methods on A3size sheet)
3. Solve the given numerical.

**PHYSICS**

1. Revise Chapter 4: Describing Motion Around us
2. Write and learn the theoretical concepts of the CHAPTER 4
3. Using the formulae and equations of motion, solve the given numericals in a separate small numerical notebook.

**PHYSICAL EDUCATION AND WELL-BEING**

Prepare a file on any one game of your choice covering following aspects:

- History of the game/sports (200 words)
- Terminology of the game (any 5)
- Fundamental skills of the game (any 5)
- Rules of the game (any5)
- Ground /Court/field specifications.
- Common injuries of the game (any 3)
- Indian sports personalities/awardees of the game (any 5)
- Name of national/ international tournaments/ competitions of the game (any 3)

**MUSIC**

Students are required to prepare a project on any one famous Indian classical singer on an A3 size sheet.

1. Choose one classical singer of your choice.
2. Include the following details in your project: Name and photograph of the singer, early life and background, type of classical music (Hindustani/Carnatic), major achievements and awards, famous songs/compositions, and contribution to Indian music.
3. Decorate the sheet neatly and creatively.
4. Use handwritten content only.
5. Students may add drawings, borders, musical notes, or pictures to make the project attractive.
6. Mention your Name, Class, and Section clearly at the bottom of the sheet.

Note: Originality, presentation, and neatness will be considered for assessment

## **ART**

On an A3 sheet prepare an art project on any famous Indian artist. The project should be neat, creative, and informative.

The following points must be included in the project:

1. Name of the Artist
2. Introduction/About the Artist
3. Education or Background
4. Famous Paintings/Artworks
5. Art Style and Techniques
6. Achievements and Contributions to Indian Art
7. Pictures of the Artist and his/her Artwork

### **Instructions:**

- \* Use proper headings and decoration.
- \* Maintain cleanliness and creativity in presentation.
- \* Draw or paste relevant pictures neatly.
- \* Use handwritten content only.
- \* Mention your Name, Class and Section clearly at the bottom of the sheet.
- \* Submit the project on time.