

























## ART INTEGRATION PROJECT

Class-VI

Session- 2024-2025

Topic	<b>NATURE (FLORA AND FAUNA) OF THE ANDAMAN AND NICOBAR ISLANDS</b>								
<b>Subject and Art Integrated</b>	English, Hindi, Mathematics, Science, Social Science, Art & Craft and ICT								
<b>Objectives</b>	<p>Students will be able to</p> <ul style="list-style-type: none"><li>➤ state different endemic species of Andaman and Nicobar Islands.</li><li>➤ comprehend the characteristics, adaptations and ecological importance of the species.</li><li>➤ research about the animals found in coral reef.</li><li>➤ apply the concept of ratios and create a mosaic design.</li><li>➤ use art to express creativity.</li><li>➤ incorporate inter-disciplinary knowledge into one project.</li><li>➤ अंडमान निकोबार के वनस्पति संपदा एवं प्राकृतिक संसाधनों से संबंधित जानकारियाँ एकत्रित की जाएँगी जिससे उस राज्य के प्रति उनके भाव एकीकृत हो पाएँगे।</li></ul>								
<b>Materials required</b>	A3 and A4 size colourful sheet, political map of India, scissors, glue and colours								
<b>Methodology of activities</b>	<p><b>ENGLISH</b></p> <p>The Andaman and Nicobar Islands have a rich variety of flora and fauna with many rare and endemic species. Realising the importance of the need for conservation of the biodiversity of this fragile ecosystem, the Salim Ali Centre for Ornithology and Natural History undertook several studies with a focus on birds like Nicobar Pigeon, Andaman Teal and many more, along with their habitats.</p> <p><b>Task:</b> Study about these birds and the measures which are undertaken for the conservation of these birds and their habitats in detail.</p> <p>A) Choose three such birds and prepare a brief creative report on A4 size sheets about these birds and the measures which were undertaken for their conservation. Also, draw colourful pictures of the chosen birds.</p> <p>B) Suggest five ways for conserving these birds in your own words.</p> <p>Following are some examples of such endemic birds:</p> <table border="0" style="width: 100%; text-align: center;"><tbody><tr><td> <b>Nicobar Pigeon</b> <i>Caloenas nicobarica nicobarica</i> (Linnaeus)</td><td> <b>Common Hill-Myna</b> <i>Gracula religiosa andamanensis</i> (Beavan)</td><td> <b>Andaman Collared Kingfisher</b> <i>Halcyon chloris davisoni</i> (Sharpe)</td><td> <b>Andaman Red-breasted Parakeet</b> <i>Psittacula alexandri abbotti</i> (Oberholser)</td></tr><tr><td> <b>Andaman Blackcrested Baza</b> <i>Aviceda leuphotes andamanica</i> (Abdulali)</td><td> <b>Andaman Green Imperial-Pigeon</b> <i>Ducula aenea andamanica</i> (Abdulali)</td><td> <b>Andaman Little Green Heron</b> <i>Butorides striatus spodiogaster</i> (Linnaeus)</td><td> <b>Andaman Red-cheeked Parakeet</b> <i>Psittacula longicauda tyleri</i> (Hume)</td></tr></tbody></table>	 <b>Nicobar Pigeon</b> <i>Caloenas nicobarica nicobarica</i> (Linnaeus)	 <b>Common Hill-Myna</b> <i>Gracula religiosa andamanensis</i> (Beavan)	 <b>Andaman Collared Kingfisher</b> <i>Halcyon chloris davisoni</i> (Sharpe)	 <b>Andaman Red-breasted Parakeet</b> <i>Psittacula alexandri abbotti</i> (Oberholser)	 <b>Andaman Blackcrested Baza</b> <i>Aviceda leuphotes andamanica</i> (Abdulali)	 <b>Andaman Green Imperial-Pigeon</b> <i>Ducula aenea andamanica</i> (Abdulali)	 <b>Andaman Little Green Heron</b> <i>Butorides striatus spodiogaster</i> (Linnaeus)	 <b>Andaman Red-cheeked Parakeet</b> <i>Psittacula longicauda tyleri</i> (Hume)
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## HINDI

अंडमान-निकोबार के जंगलों में पाए जाने वाले फूल-पौधों तथा वन्य-जीवों के बीच आपसी संवाद (लगभग 100 शब्दों में) रंगीन ए-4 साइज की शीट पर लिखकर कक्षा में सबके समक्ष प्रस्तुत कीजिए।

### Resource:

- <https://www.and.nic.in/andhindi/andaman/flora.php#>

## MATHEMATICS

The Andaman and Nicobar Islands are known for their breathtaking beauty and diverse ecosystems. The islands are home to a vast array of unique flora and fauna, including lush tropical forests, stunning beaches, vibrant coral reefs, and incredible wildlife. Apply concepts of ratio to create a visually appealing mosaic design on an A3 size sheet representing the unique features of the Andaman and Nicobar Islands.



### Task:

#### Step 1: Assign ratios to various island features:

- Beaches: 3:5 (3 parts sand to 5 parts water)
- Islands: 2:3 (2 parts land to 3 parts sea)
- Sea creatures: 5:8 (5 parts fish to 8 parts coral)
- Forest: 2:3 (2 parts forest to 3 parts land)

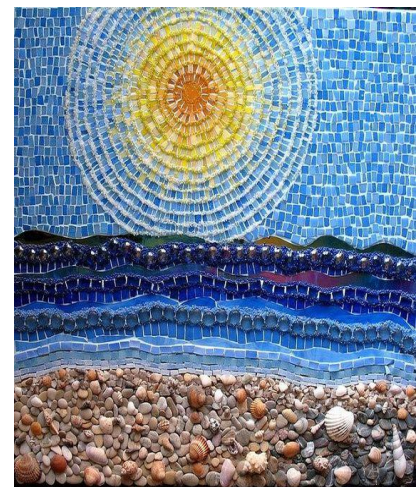
\*Depict any two features in the design.

#### Step 2: Designing the Mosaic

1. Create a mosaic design incorporating the assigned ratios.
2. Use different colours, shapes (triangles, squares, etc), or textures (cloth, paper or sand) to represent each feature (arrange the items to show the ratio).
3. Consider symmetry and patterns.

Also, on an A4 size sheet, along with pictures represent ratios of various statistical data of the Andaman and Nicobar Islands representing:

1. Forest cover to total area
2. Mangrove forests to the total forest area
3. Male to female ratio
4. Urban to rural population
5. Coral reef to total area



## SCIENCE

### **Eco-Artistry: Showcasing the Beauty of Andaman and Nicobar's Flora and Fauna”**

The flora and fauna of the Andaman and Nicobar Islands are incredibly diverse and unique, with many species found nowhere else on Earth. The islands are home to lush tropical rainforests, vibrant coral reefs, and rich mangrove swamps, supporting a wide range of plant life like the Andaman Padauk, orchids, and various ferns. The fauna includes exotic species such as the Nicobar pigeon, Andaman wild pig, saltwater crocodile, and sea turtles. These ecosystems play a crucial role in maintaining the region’s biodiversity, making the islands a natural paradise of global ecological importance.

**Task:** Create a fact sheet depicting pictures of each species and form a brochure that includes:

- Scientific name
- Physical description and distinctive features
- Habitat (forest, coral reefs, coastal areas, etc.)
- Role in the ecosystem (e.g. pollinators, keystone species)
- Conservation status (endangered, threatened, etc.)

## SOCIAL SCIENCE

The Andaman and Nicobar Islands are home to some of the most spectacular species of marine life in the world. With over 560 different species of corals recorded until date, the sheer colour and diversity of the sights underwater can leave you spellbound.

### **Task:**

A) Study about the animals found in the coral reef of the Andaman and Nicobar Islands and prepare an **Interactive project** on these animals.

- The project must be creative. It should include images of different animals found in the coral reef.
- To enhance the beauty of the notebook, include colourful and vibrant pictures and design beautiful borders to make it attractive.
- It must consist of 4 to 5 pages with suitable headings, properly highlighted.

Some samples of interactive notebooks are:



B) Also, mark the following places on a political map of India:  
1. The Andaman and Nicobar Islands      2. Port Blair

<p><b>Learning Outcomes</b></p>	<ul style="list-style-type: none"> <li>• Students will have insight into the rich culture of the Andaman and Nicobar Islands by reflecting on its nature, its flora and fauna.</li> <li>• Critical thinking and idea generation skills will be enhanced.</li> <li>• Through research and analysing, students will be able to use practical and visual approaches.</li> </ul>
<p><b>Self-evaluation and follow up</b></p>	<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• Originality</li> <li>• Understanding</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Presentation</li> <li>• Reflection</li> </ul>



**Note: Last date of submission of project is 18.11.2024 (Monday).**



## ART INTEGRATION PROJECT

Class -VII

Session- 2024-2025

Topic	HANDCRAFTED HERITAGE: ANDAMAN AND NICOBAR'S ARTISTIC LEGACY
Subject and Art Integrated	English, Hindi, Mathematics, Science, Social Science, Art and Craft, ICT
Objectives	<p>Students will be able to:</p> <ul style="list-style-type: none"><li>➤ incorporate interdisciplinary knowledge into one project.</li><li>➤ appreciate the cultural heritage of the Andaman and Nicobar Islands through their handicrafts.</li><li>➤ develop research skills by investigating traditional crafts.</li><li>➤ enhance communication skills through conducting interviews and presentations.</li><li>➤ apply geometric concepts to analyse and create symmetrical patterns.</li><li>➤ develop problem-solving skills by calculating areas and ratios.</li><li>➤ investigate the science behind traditional handicrafts.</li><li>➤ understand sustainability in crafting practices by engaging in artistic expressions.</li><li>➤ analyse the cultural and economic significance of handicrafts in the Andaman and Nicobar Islands.</li><li>➤ apply their knowledge and imagination to bring out the best of their creativity in the form of an interview, weaving mat patterns, informative booklets, jewellery creations and more.</li><li>➤ अंडमान निकोबार के जीविकोपार्जन तथा व्यवसायिक संसाधनों से संबंधित जानकारियाँ एकत्र कर सकेंगे।</li></ul>
Materials required	A4 size colourful sheets, colours, scissors, glue, ruler and sketch pens
Methodology of Activities	<p><b>ENGLISH</b></p> <p>The Andaman and Nicobar Islands, renowned for their natural beauty, also boast of a rich tapestry of traditional handicrafts. Skilled artisans create exquisite pieces, reflecting the islands' unique cultural heritage.</p> <p><b>Task:</b> Immerse yourself in the vibrant marketplace of the Andaman and Nicobar Islands.</p> <ul style="list-style-type: none"><li>• Select an artisan: Choose a specific craft (e.g. bamboo weaving, coconut carving, etc).</li><li>• Conduct an interview: Ask about techniques, inspirations, and challenges.</li><li>• Create a presentation: Showcase your findings on an A4 size sheet, including visuals and the artisan's insights.</li><li>• Present the interview in the class.</li></ul> <div style="display: flex; justify-content: space-around;"></div>

**Resource:**

- <https://www.youtube.com/watch?v=Ja6UPU7P8kM>
- <https://www.youtube.com/watch?v=eaB1PfVjmZA>

**HINDI**

अंडमान-निकोबार के आदिवासी जनजातियों के व्यवसाय और आजीविका (रोजगार) पर एक सचित्र परियोजना (प्रोजेक्ट) ए-4 साइज शीट पर तैयार कर कक्षा में प्रस्तुत कीजिए।

**Resource:**

<https://www.indiastat.com/andaman-and-nicobar-islands-state/data/Agriculture>

**MATHEMATICS**

The tribals of Nicobar Islands are known to be skilled in weaving beautiful mats and hangings made out of various natural and locally grown items. One of the most common materials used is palm leaves. The designs show unique patterns and great symmetry. Below are some reference images:

**Task:**

- Create a mat pattern of your choice using strips of coloured paper to represent the vivid culture of the indigenous people of the Andaman and Nicobar Islands.



- Once the mat is made, determine the area of the paper strips used for each colour. Eg: if one paper strip is 15 cm long and 2 cm wide then the area of that strip is  $15 \times 2 = 30 \text{ cm}^2$ .
- Now, enlist each colour used in the pattern and write the ratio of the number of strips used of that particular colour to the total number of strips.

## SCIENCE

Embark on a journey of discovery that blends art and science, exploring the traditional handicrafts of the Andaman and Nicobar Islands.

**Task:** Do the following project:

### Components of the Project:

#### Research Phase:

Overview of Handicrafts: Identify key handicrafts, such as shell crafts, bamboo weaving, and wood carving.

Scientific Background: Explore the materials used (e.g. types of shells, bamboo species) and their properties. Study the natural resources and biodiversity in the islands.

#### Science Investigation:

- **Material Properties:** Conduct simple experiments to understand the physical and chemical properties of materials used in handicrafts (e.g., buoyancy of shells, density and strength of bamboo).
- **Sustainability Practices:** Research how local artisans practice sustainable harvesting methods and the importance of conserving natural resources.

#### Presentation of work:

- Students will create handicraft items using sustainable methods. Possible crafts include, decoration items, bamboo coasters or simple woven items.
- **Journal Entry:** Students will write a journal to record the results of conducted experiments, their observations, inferences and their views on the importance of sustainability and cultural heritage. (Use A4 size sheet)



## SOCIAL SCIENCE



The Andaman & Nicobar Islands are known for their unique and traditional handicrafts, which play a significant role in the local economy and cultural heritage.

**Task:** To understand the significance of handicrafts in the Andaman and Nicobar Islands, design an informative booklet and create handmade jewellery.

1. Research Andamanese handicrafts (basket weaving, wood carving, etc.)
2. Design an informative booklet on A-4 size sheets (8-10 pages) on Andamanese handicrafts.
3. Create handmade Andamanese jewellery (necklace, earrings, etc.)

#### General instructions:

- Use eco-friendly material for handmade jewellery.
- Ensure the booklet is well-organised and visually appealing.
- Conduct thorough research using credible sources.

	<ul style="list-style-type: none"> <li>• Be creative and innovative in design and presentation.</li> <li>• Use visual aids (images, diagrams) to support information.</li> <li>• Ensure accuracy and authenticity of information.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p><b>Resource:</b></p> <ul style="list-style-type: none"> <li>• <a href="https://youtu.be/Aynm5liw5ns?si=DeeLDq10vBqzPl_1">https://youtu.be/Aynm5liw5ns?si=DeeLDq10vBqzPl_1</a></li> </ul>
<p><b>Learning Outcomes</b></p>	<ul style="list-style-type: none"> <li>• Students will demonstrate an understanding of the significance of traditional handicrafts in the cultural identity of the Andaman and Nicobar Islands.</li> <li>• Students will effectively gather and present information on artisans and their crafts, showcasing improved research and communication skills.</li> <li>• Students will accurately calculate areas and ratios related to their mat designs, demonstrating the application of mathematical concepts in real-world contexts.</li> <li>• Students will articulate the importance of sustainable practices in handicraft production and their impact on local communities and biodiversity.</li> <li>• Creativity, critical thinking and problem-solving skills will be enhanced while promoting awareness about the occupations practised by the people of the Andaman and Nicobar Islands.</li> </ul>
<p><b>Self-evaluation and follow up</b></p>	<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• Originality</li> <li>• Understanding</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Presentation</li> <li>• Reflection</li> </ul>


**Note: Last date of submission of project is 18.11.2024 (Monday).**



## ART INTEGRATION PROJECT

Class -VIII

Session- 2024-2025

<b>Topic</b>	<b>BIODIVERSITY OF THE ANDAMAN AND NICOBAR ISLANDS</b>
<b>Subject and Art Integrated</b>	English, Hindi, Mathematics, Science, Social Science, Art & Craft and ICT
<b>Objectives</b>	<p>Students will be able to:</p> <ul style="list-style-type: none"><li>• learn about the unique species and ecosystems of the Andaman and Nicobar Islands.</li><li>• conserve and manage endangered and vulnerable species.</li><li>• use art to express creativity.</li><li>• explore the relationship between the mathematical concept of fractals (Pythagorean trees) and the biodiversity of the Andaman and Nicobar Islands.</li><li>• use their own creativity and mathematical skills to draw a Pythagorean tree.</li><li>• raise awareness about importance of biodiversity.</li><li>• analyse the importance of conservation efforts.</li><li>• develop skills in art, research, and presentation.</li><li>• incorporate inter-disciplinary knowledge into one project.</li><li>• अंडमान निकोबार की जैव-विविधताओं एवं समुद्री संसाधनों के संबंध में जानकारी एकत्र कर सकेंगे।</li></ul>
<b>Materials required</b>	A3 and A4 size colourful sheets, pencil, scale, scissors, glue, origami paper, compass, colours etc.
<b>Methodology of activities</b>	<p><b>ENGLISH</b></p> <p>The Andaman and Nicobar Islands, located in the Bay of Bengal, is a union territory of India and a biodiversity hotspot. This archipelago comprises 572 islands, with diverse ecosystems and habitats supporting an incredible array of flora and fauna.</p> <p>Do a detailed study about the unique biodiversity of the islands. What efforts can we take to conserve and protect this natural heritage?</p> <p><b>Task:</b> Create a colourful and an informative biodiversity journal depicting habitats (e.g., forests, oceans), species profiles (e.g., animals, plants, insects), ecosystems (e.g., food chains), conservation efforts and personal reflections on A4 size sheets.</p> 

## HINDI

अंडमान-निकोबार के वन्य-जीव, समुद्री-वनस्पति तथा स्थल-वनस्पति की सुरक्षा एवं पर्यटन की सावधानियाँ हेतु सुझावों की सूची तैयार कीजिए। पर्यटकों को जागरूक करते हुए एक आकर्षक विज्ञापन ए-4 साइज की शीट पर तैयार कर कक्षा में प्रस्तुत कीजिए।

## RESOURCE:

<https://www.and.nic.in/andaman/flora.php>

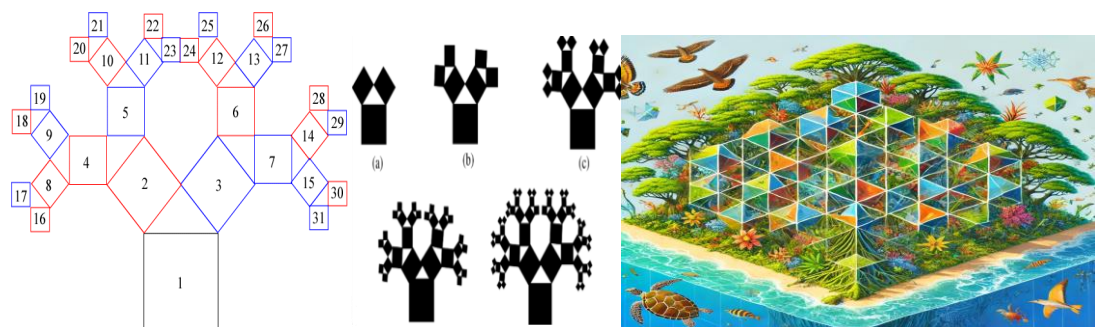
## MATHEMATICS

The Andaman and Nicobar Islands are rich in biodiversity, featuring lush rainforests, unique mangroves, and vibrant coral reefs. These ecosystems are home to rare birds, sea turtles, and diverse marine life, making the islands a vital habitat for countless species. Let us combine this vibrant biodiversity with the fascinating concept of fractals to create a beautiful island-inspired tree.

### Task:

**Step-1:** On an A3 size sheet, start by drawing a square at the bottom as the tree trunk. Add two right-angled triangles on top to form branches, and continue this pattern by adding squares and triangles on each branch to create a fractal Pythagorean tree.

**Step-2:** Decorate your tree and surroundings with island plants like mangrove leaves, flowers, and animals such as birds, crabs, and sea turtles. Add ocean waves, coral reefs, and beaches around the tree, then color everything to represent the beautiful ecosystem of the Andaman and Nicobar Islands. Images are given below for your reference.



## SCIENCE

The Andaman and Nicobar Islands, nestled in the Bay of Bengal, boast a rich tapestry of biodiversity that showcases a unique blend of flora and fauna. This archipelago is home to a variety of ecosystems, including lush tropical rainforests, coral reefs, and mangrove forests, each teeming with life. From endemic species like the Nicobar pigeon to vibrant marine life in its surrounding waters, the islands play a crucial role in global biodiversity. Their isolated nature has allowed many species to thrive, making them a vital area for conservation and research efforts.

How does the unique biodiversity of the Andaman and Nicobar Islands contribute to the ecological balance and cultural richness of the region?

**Task:** Create a collage that highlights key species, ecosystems, and conservation efforts using pictures, shells and natural waste materials (e.g., leaves, threads, etc.) while promoting awareness about conservation.

Use markers or paints to label each part of your collage. Include the name of the species, its habitat, and any interesting fact about its role in the ecosystem.

Write a short paragraph reflecting on what you learned about biodiversity and the impacts of pollution and climate change on the biodiversity of Andaman and Nicobar Islands.



## SOCIAL SCIENCE

Andamanese tribal patterns are an integral part of the traditional culture of the Andaman and Nicobar Islands. These designs celebrate the rich cultural heritage of the Andamanese tribes. The colours and the patterns reflect the island's natural beauty and tribal tradition.

**Task:** Design a textile print inspired by Andamanese tribal patterns. Also create a photo album on the national parks of the Andaman and Nicobar Islands.

<https://www.youtube.com/watch?v=df03FZVPs8c>

- Use A4 size sheet for the textile print.
- Ensure the design is visually appealing.
- Conduct a thorough research using credible sources.
- Combine simple shapes to create a unique design like geometric shapes, nature -inspired motifs like leaves, flowers and tribal stripes and lines.
- Be creative and innovative in design and presentation.
- Ensure accuracy and authenticity of information.

Some samples are as follows:



<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Students will be able to understand the rich biodiversity of Andaman and Nicobar Islands.</li> <li>• Creativity, critical thinking, and problem-solving skills will be enhanced while promoting awareness about the unique features of the Andaman and Nicobar Islands.</li> <li>• Need to conserve habitats and ecosystems (e.g., forests, wetlands, coral reefs) will be amplified.</li> <li>• Understanding of human-nature interdependence will be developed.</li> <li>• Sustainable practices in daily life will be underscored.</li> </ul>
<b>Self-evaluation and follow up</b>	<b>Parameters</b> <ul style="list-style-type: none"> <li>• Originality</li> <li>• Understanding</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Presentation</li> <li>• Reflection</li> </ul>



**Note: Last date of submission of project is 18.11.2024 (Monday).**



## ART INTEGRATION PROJECT

### CLASS IX

Session: 2024-25

Topic	Landscape-the physical attributes of the Andaman Nicobar islands
Subject and Art Integrated	Science, Social science, Mathematics, English, Hindi
Objectives	<p>The students will be able to:</p> <ul style="list-style-type: none"><li>➤ develop skills in field research, data collection, and analysis related to ecological monitoring and biodiversity assessment.</li><li>➤ apply the Cartesian coordinate system to map geographical features, enhancing skills in plotting coordinates, understanding distance and scale, and integrating Mathematics with real-world geography creatively.</li><li>➤ understand the geographical significance of the islands. Explore the historical background of the islands. Examine the impact of tourism and modernisation.</li><li>➤ admire beautiful landscapes and hidden gems of the island.</li><li>➤ understand nature and four basic principles of existence: Health, Ecology, Fairness and Care.</li><li>➤ अंडमान निकोबार के प्राकृतिक सुंदरता की रक्षा हेतु जानकारी व सुझाव तैयार कर सकेंगे।</li></ul>
Materials required	Paper, mould, pens, crayons, organic colours, geometry box, A4 sheets etc.
Methodology of activity	<p><b>ENGLISH</b></p> <p>Imagine you have visited various tourist attractions and witnessed different landscapes of Andaman and Nicobar Islands. Paint a poster on an A4 size sheet depicting the hidden gems in its natural beauty.</p> <p>Give a befitting heading and a tag line to your poster to invite other tourists to explore the unexplored attractions so far. Present your poster in class and share your experiences in about 2 -3 minutes.</p> <p><b>Resources:</b></p> <ul style="list-style-type: none"><li>• <a href="https://youtu.be/7vki2nXGQ8M?si=z9wDLfjWpizsXAaB">https://youtu.be/7vki2nXGQ8M?si=z9wDLfjWpizsXAaB</a></li><li>• <a href="https://youtu.be/EpjRcyLHVME?si=pCCiOdCZ4g9Dyxkq">https://youtu.be/EpjRcyLHVME?si=pCCiOdCZ4g9Dyxkq</a></li></ul> <div style="display: flex; justify-content: space-around;"></div> <p><b>HINDI</b></p> <p>अंडमान-निकोबार की नैसर्गिक सुंदरता दिनोंदिन कम होती जा रही है। इसके कारणों की सूची बनाकर बचाव के उपायों पर एक रिपोर्ट ए-4 साइज शीट पर तैयार कर कक्षा में सुनाइए।</p> <p><b>Resource:</b></p> <ul style="list-style-type: none"><li>• <a href="https://www.andamantourism.org/andaman-island-a-treasure-of-natural-beauty-and-unique-experiences/#:~:text=The%20specialty%20of%20Andaman%20Island%20is%20not%20only%20its%20beaches,found%20only%20there%20(e ndemic).">https://www.andamantourism.org/andaman-island-a-treasure-of-natural-beauty-and-unique-experiences/#:~:text=The%20specialty%20of%20Andaman%20Island%20is%20not%20only%20its%20beaches,found%20only%20there%20(e ndemic).</a></li></ul>

## MATHEMATICS

On an A3 size sheet, create a detailed map of the Andaman and Nicobar Islands on a Cartesian plane, using the x-axis to represent longitude (East-West) and the y-axis for latitude (North-South). Mark the key features such as major islands, ports, lighthouses, and national parks, assigning appropriate coordinates to each. Additionally, design a treasure hunt by incorporating clues using Cartesian coordinates, and bring the island's geography to life through creative use of colours or shading techniques.

### Resources:

- <https://images.app.goo.gl/kPRbMcHLvhGXjBmX7>
- <https://images.app.goo.gl/FL88pCs2K4FY42Fs9>

## SCIENCE

'A slew of infrastructure projects have been proposed in the Andaman and Nicobar Islands to give a major boost to tourism and business there, according to information released by the central government. While these will transform the islands substantially, experts are worried that this would cause loss of biodiversity and have a negative impact on the indigenous people in the ecologically sensitive islands'.

-By Jayashree Nandi, Hindustan Times, New Delhi



**Present your data on an A4 size sheet based on the following pointers:**


**Ecological Changes:** Investigate how deforestation for agriculture and tourism infrastructure affects local biodiversity and ecosystems of the islands.

**Biodiversity Effects:** Study which species are most vulnerable to the impacts of tourism and deforestation, and how is their survival being threatened?

**Policy and Conservation:** Explore current policies aimed at managing human impact on these islands and evaluate their effectiveness in balancing the development with conservation of biodiversity and ecosystem.

### Resources:

- [https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://andaman.gov.in/pdf/7%2520year%2520action%2520plan\\_compressed.pdf&ved=2ahUKEwitqnnovuIAxWiUGcHHYh1B7cQFnoECC8QAQ&usg=AOvVaw0slxxzFjOoA2en8q2wLwPA](https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://andaman.gov.in/pdf/7%2520year%2520action%2520plan_compressed.pdf&ved=2ahUKEwitqnnovuIAxWiUGcHHYh1B7cQFnoECC8QAQ&usg=AOvVaw0slxxzFjOoA2en8q2wLwPA)


	<p><b>SOCIAL SCIENCE</b></p> <p><b>Project:</b> The Andaman and Nicobar Islands: Islands or submerged mountains?</p> <ul style="list-style-type: none"> <li>• “The Andaman and Nicobar Islands is an archipelago.” Explain what an archipelago is giving examples of Andaman and Nicobar Islands.</li> <li>• Study the island’s strategic importance for India’s defence and their location in the Indian Ocean.</li> <li>• Investigate the island’s history, from early settlements to their role in India’s freedom struggle, including the famous Cellular Jail.</li> <li>• Analyse the development of tourism in the region and its effects on the local economy, environment and indigenous communities.</li> <li>• Use a political map of India to identify and locate the islands.</li> <li>• Paste colourful pictures related to the topic.</li> </ul>  <p><b>Resources:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Geography of Andaman and Nicobar Islands - Go2Andaman</a></li> <li>• <a href="#">Andaman and Nicobar Islands - Wikipedia</a></li> </ul>
<p><b>Learning Outcomes</b></p>	<ul style="list-style-type: none"> <li>• Harmony with nature and the essence of colours make a perfect picture together.</li> <li>• To gain insights in the sustainable approach to tourism and conservation in sensitive ecological areas like the Andaman and Nicobar Islands.</li> <li>• To analyze the geographical and historical significance of the islands.</li> <li>• To develop skills in geographic mapping, coordinate plotting, and spatial visualization while enhancing creativity and understanding of the geographical features of the Andaman and Nicobar Islands.</li> </ul>
<p><b>Self-evaluation and follow up</b></p>	<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• Originality</li> <li>• Understanding</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Presentation</li> </ul>

**Note: Last date of submission of project is 18.11.2024 (Monday).**

## ART INTEGRATION PROJECT

### CLASS X

Session: 2024-25

<b>Topic</b>	<b>Cultural Heritage of the Andaman &amp; Nicobar</b>
<b>Subject and Art Integrated</b>	Science, Social science, Mathematics, English, Hindi
<b>Objectives</b>	<p>Students will be able to:</p> <ul style="list-style-type: none"><li>• understand the region's diverse cultural heritage and traditions</li><li>• celebrate the unity in diversity that defines the people of Andaman and Nicobar Islands.</li><li>• understand the role of these instruments in the cultural and social life.</li><li>• preserve the unique musical heritage of the region.</li><li>• explore Mathematical concepts in a creative and hands-on way, helping them in a better understanding of surface area and volume.</li><li>• apply formulae and Mathematical reasoning to real-life objects and artistic creations, encouraging critical thinking and problem-solving.</li><li>• अंडमान निकोबार के सांस्कृतिक गतिविधियों से संबंधित जानकारी एकत्रित कर सकेंगे।</li></ul>
<b>Materials required</b>	Paper, mould, pens, crayons, organic colours, geometry box, A4 sheets, cardboard, coconut shell (for making the body of flutes)
<b>Methodology of activities</b>	<p><b>ENGLISH</b></p> <p>The Andaman and Nicobar Islands, situated in the Bay of Bengal, is not just a beautiful tourist destination but also a cultural hub with unique festivals and fairs. The island boasts of a diverse population, including indigenous tribes, settlers from the mainland and people of different religions and cultures, which is reflected in the festivals they celebrate throughout the year. From religious festivals to cultural fairs, the islands offer a wide range of events to tourists and locals alike.</p> <p><b>Task:</b> Design an informative photo album on the festivals celebrated by the people of the Andaman and Nicobar Islands on an A4 size sheet.</p> <p>Read more by clicking on the links provided to explore some of the most famous festivals in Andaman and Nicobar Islands that celebrate their rich cultural heritage.</p> <p><b>Resource:</b></p> <ul style="list-style-type: none"><li>• <a href="https://www.barefoot-andaman.com/blog/festivals-of-andaman-and-nicobar-islands.html">https://www.barefoot-andaman.com/blog/festivals-of-andaman-and-nicobar-islands.html</a></li><li>• <a href="https://www.holidify.com/collections/festivals-of-andaman-and-nicobar-islands">https://www.holidify.com/collections/festivals-of-andaman-and-nicobar-islands</a></li></ul> 



## HINDI

अंडमान-निकोबार में विभिन्न कबिलाई संस्कृति विद्यमान हैं। उनकी सांस्कृतिक गतिविधियों पर एक सचित्र यात्रा-वृत्तांत ए-4 साइज शीट पर तैयार कर कक्षा में प्रस्तुत कीजिए।

### Resource:

- <https://www.andamantourism.org/andaman-and-nicobar-culture/#:~:text=It%20has%20a%20distinct%20and,deeply%20influenced%20by%20historical%20factors>

## MATHEMATICS

The Andaman and Nicobar Islands, located in the Bay of Bengal, are not only known for their stunning beaches and turquoise waters but also for their rich cultural heritage. The folk music and dance of the Andaman and Nicobar Islands depict the traditions and daily lives of the indigenous communities. The traditional folk music usually accompanied by instruments like the dhol, flute, and mandal, creates a lively and energetic atmosphere. Mathematics is involved in many aspects of making musical instruments, including the pitch of strings, geometrical structure and the ratios between notes.

**Activity:** Using different geometrical solid shapes, make 3D models of instruments like drums, flutes or traditional masks used in celebration of festivals of the natives of the Andaman and Nicobar (use cardboard and coconut shells).



## SCIENCE

The Andaman and Nicobar's culture is a mix of tribal traditions, arts and festivals. Festivals, music, and dance play a big role in island life, reflecting the tribes' heritage and history. Music and Dance is an important part of Andaman's culture. The oldest traditional dance of the region is Nicobari. There are many other popular dance forms as well. Some of these folk dances are performed during the Island Tourism festival. The Island Festival is a hub of cultural activities.

**Task:** Students will conduct research on the musical traditions, instruments and art forms of the Andaman and Nicobar Islands. They will create engaging presentation on A4 size sheets to share their findings, detail description of material used in making instrument and relate the concept of sound produced by the instrument.



## SOCIAL SCIENCE

India is one of the mostly preferred destinations for international tourists. Tourism is a very promising industry in India. India is a country with a large number of tourist spots and attractive features. It is a country known for its culture, heritage, history and natural resources. All the states and union territories have a good number of locations catering to the domestic and international tourists.

**Task:** Making of the global world (History), Globalization (Economics) and Lifelines of economy (Geography)

- Trace the history of globalization in the Andaman and Nicobar Islands.
- Research and write about the naming of the 21 islands of the Andaman and Nicobar.
- Analyse the impact of roadways and railways on the economy of the islands.
- Also analyse the impact of globalization on the economy of the Andaman and Nicobar Islands
- Project has to be a power point presentation of about 15 slides.
- Each student will be evaluated on the basis of their work



<p><b>Learning Outcomes</b></p>	<ul style="list-style-type: none"> <li>• Students will enrich their knowledge about religious and cultural festivals celebrated by the original inhabitants of the Andaman and Nicobar Islands.</li> <li>• Through creating and analyzing models, students will enhance their ability to solve mathematical problems using practical and visual approaches.</li> <li>• Critical thinking and idea generation skills will be enhanced.</li> <li>• Focusing on the various musical instruments that are used by the indigenous tribes, students will know about the deep connection that the tribes have with their natural environment, reflecting their profound respect for the land and the resources it provides.</li> </ul>
<p><b>Self-evaluation and follow up</b></p>	<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• Originality</li> <li>• Understanding</li> <li>• Creativity</li> <li>• Innovation</li> <li>• Presentation</li> </ul>

**Note: Last date of submission of project is 29.11.2024 (Friday).**