



# Summer Holiday Assignment

Academic Session 2023-24

## CLASS - V

Summer Vacations are at our doorsteps. Holidays are a well-deserved opportunity to relax and rewind by indulging in activities that are pleasurable at the same time educative. You are going to enjoy your holidays. Practice your hobbies or inculcate new hobbies. Do a lot of Reading, it can be newspapers, magazines, books or novels. Watch English news daily in order to equip yourself with the information and facts to be used as content in the writing skills.

Summer Holiday Homework is an initiative on our part, to inculcate innovativeness, creativity and interest in the tasks assigned to our students. It will not only enable you to recapitulate what was taught but will also help you to connect yourselves to the various learning processes. Please ensure that you complete the assignment neatly. It's a sincere request to all to complete home assignments on time. Engage yourself whole heartedly as you will learn a lot through it.

### GENERAL GUIDELINES

- The holiday homework is an integrated assignment.
- Mathematics, Science and Social Science are being integrated as Assignment-1.
- English and 2<sup>nd</sup> Language are integrated as Assignment-2.
- GK and Life skill are separately designed to be done in respective notebooks.
- Assignment-1 and 2 are to be done in the A4 size sheet provided in the folder.
- The cover page should contain the following details
  - **Name**
  - **Class**
  - **Section**
  - **Roll No.**
  - **Assignment No.**
  - **Date**
- The students need to follow the procedure as instructed in the respective assignments.
- All holiday homework to be submitted on (5<sup>th</sup> June) in the folders.
- Submission of assignments are mandatory for all the students.

## **Subjects Integrated: Mathematics, Science, Social Science**

- **Topic:** Searching Expedition
- **Material Required:**
  - Science - Two A4size paper, Pen, Ruler, Fevicol, Natural Vegetation Specimen.
  - Mathematics - 1-2 A4 size sheets, Pen, Ruler, Fevicol, any cuboid-shaped object.
  - Social Science - Map, Two A4 size papers, Colour pencil, Scale.
- **Instruction (What you need to do):**
  - Visit a place during your summer vacation.
  - Identify the location of the place on a map and draw the grids on it.
  - Find out any 2-3 special vegetation of that place, collect its specimen (flowers/leaves/sapling), paste it on an A4size paper, and write about it.
  - Search and collect any cuboid-shaped object (handcrafted boxes/ pebbles/stones/etc.) from the place visited and find its volume. Paste the picture of the object on the A4 sheet and show the calculation along with the answer.
- **Learning outcome:**
  - Students will know about the natural vegetation of the place visited by them during summer vacation. They will also know about the different types of plants that grow in that region.
  - Their concept regarding the map, grid, natural vegetation of the area visited and the volume of a cuboid will be clear.
  - The students will be exposed to experiential learning and they will enhance their understanding of the concept of 'volume' through a real-life adventure.
- **Criteria for evaluation:**
  - Mathematics - Research, Calculation, and Presentation
  - Science - Creativity, Research & Analysis, Evidence.
  - Social Science - Innovation, research, and presentation





## **Subject – General Knowledge**

- **Topic** – Mangrove Forests could become a goldmine.
  
- **Materials required:**
  - Coloured A4 size sheet
  - Colour pencils
  - Pictures of the topic
  - Information related to the topic
  
- **Instruction** (What you need to do): Find information on the topic provided by keeping the following points:
  - How people are earning money from the mangroves?
  - Planting the right trees in the correct place.
  - How to protect and conserve the existing mangrove forests?
  - Paste pictures and write information on the A4 size sheet.

You can use colour pencils to write and decorate.
  
- **Learning Outcome** – Students will learn the importance of mangrove forests, how is it benefitting our environment, and how we can protect it.
  
- **Criteria for evaluation** – The students will be marked on the following points- neatness, relevance, presentation, and efficiency.

Please find the topic-related article below:



to regularly visit the

# How India's coastal forests could become a goldmine

Mangroves Are Champions At Sucking Out Carbon Dioxide From Air, And Each Tonne Removed Is Worth A Few Dollars. Now, The Govt Is Pushing For These Trees

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**T**hey lack the solemnity of a banyan tree and the stature of a deodar; but mangroves are second to none in the fight against climate change. Be it the Sunderbans in Bengal or the Gulf of Kachchh mangroves in Gujarat, they have been soaking up carbon dioxide with about five times the efficiency of terrestrial trees. That's because they absorb this greenhouse gas from both the ground and the air with their aerial roots.

Recognising the importance of mangroves, the Centre had announced the Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI) scheme in this year's Budget. Under the scheme, mangroves will be planted along India's coasts and on salt pan lands. However, experts say the scheme's success will depend on focused surveys to understand the mangrove ecosystems.

## Money From Mangroves

Mangroves are good for the environment, and they could bring in dollars too. That's because each tonne of carbon dioxide they suck out of the air earns one 'carbon credit', and these credits sell in the international voluntary market for \$5-12 each. In fact, mangroves generate about 50 carbon credits per hectare, far more than the 5-15 credits per hectare from agricultural activity, and 20-30 from terrestrial afforestation. So, increasing India's mangrove cover makes sense.

"Conservation, plantation, and restoration of mangroves need to be sped up," says Kathiresan Kandasamy, former director and honorary professor of the Department of Marine Science at Annamalai University. "Currently, we have 4,992 sq km of mangrove cover. In the 1960s, we had around 6,000 sq km. If we increase mangrove cover by 200 sq km every year, we can achieve the 6,000 sq km mark."

That target sounds ambitious because between 2017 and 2021, India added just 71 sq km of mangrove cover, according to the Forest Survey Report 2021. Kandasamy, however, thinks it is doable. "I worked out the economics - the fishing activities and carbon credit value would amount to Rs 1,000 crore and the cost of restoration is just Rs 200 crore. That's a fivefold return."

The problem is, there isn't enough data on carbon sequestration by mangroves, so estimating the amount of carbon stored in them



**CARBON SINK:** Globally, there are only five registered mangrove restoration and reforestation projects in the voluntary market. One of these is in India, and it is located in the Sunderbans mangrove area (pictured) of West Bengal.

## MANGROVE PROJECTS IN VOLUNTARY CARBON MARKET

### STATUS & NUMBER OF PROJECTS

Registered ●●●●●●●●5	Under development ●1	On hold ●●2
Registration requested ●●●●●●●●6	Under validation ●●●3	Rejected ●1



Source:  
Verified  
Carbon  
Standard,  
Verra

is difficult. Himadri Sekhar Debnath, chairman of the West Bengal Biodiversity Board, stresses on the need for these measurements: "Carbon sequestration measurement can help with enumerating carbon credits, which can act as a monetary incentive as well for the local communities."

## Planting The Right Trees

Couldn't we earn the same credits through investment in renewables, especially since mangroves grow slowly, taking up to 30 years to mature?

"Harnessing renewable energy is expensive, be it solar, wind or tidal. On the other hand, mangroves are cost-effective - it takes only Rs 5 to plant a mangrove sapling and then nature takes over and maintains the plants, mostly," says Abhijit Mitra, associate professor in the department of marine science at the University of Calcutta.

But planting mangroves for the sake of it won't do, says Debnath. Tree species need to be chosen keeping the salinity level in mind. "Which species will thrive in a particular area depends on the salinity of the area. If some

(unsuitable) species takes over, it would lead to species degradation."

Now that the government is pushing for mangrove plantation in mission mode, the threat of haphazard plantation looks real because companies aiming to acquire carbon credits fast might plant the fastest-growing species, not those that are most suitable in terms of salinity.

## Caring For Existing Cover

India's mangrove cover has degraded due to human activity, so it's important to involve the local communities in conservation efforts. "An immediate engagement of local communities would be by promoting mangrove nurseries," says Kanna K Siripurapu, a senior research fellow at the South Asia Consortium for Interdisciplinary Water Resources Studies (SaciWATERS) who is also the regional manager of the Eastern Indian Mangrove Alliance for Climate and Conservation (EIMACC), founded by SaciWATERS.

"In the long term, if the rights of the local communities are recognised by the government, the land ownership would be with them and they can benefit directly from the development or investment that happens in the mangrove ecosystems," he adds.

Conservationist Soumya Ranjan Biswal recommends setting up a task force for protecting mangroves while raising awareness about them in the local communities, but Siripurapu says, "Let alone a task force, India does not have a body dedicated to the conservation and regulation of mangroves."

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## **Subjects Integrated: English and Second Language**

- **Topic:** Subject and Predicate
  
- **Materials required-**
  - A4 sheet paper
  - Stationery items (for writing)
  
- **Instructions (What you need to do):**
  - Students will thoroughly read the chapter Papaya's Adventure and find ten sentences having proper subject and predicate.
  - Students will make cut-outs of two circles.
  - The first circle is to be made the base for writing the subject and predicate.
  - The second circle will have two horizontal slits, and to be attached above the previous circle with the help of a pin.
  - Students will then write the respective subjects on the left side and predicates on the right side. (10 subjects and predicates from the chosen 10 sentences).
  - It should be done in a manner that while rotating the circle, the subjects and predicates should be visible through the slits.
  - Please refer to the link given below for proper execution of the work. [https://youtu.be/K\\_caiojSIJA](https://youtu.be/K_caiojSIJA)
  - Students will thoroughly read the chapter হিন্দু -মুসলমান (Bengali) and identify ten sentences with proper subject and predicate (উদ্দেশ্য ও বিধেয়)
  - They will follow the same set of instructions (from 2-7, as in English holiday homework) for Bengali as well.



- Students will read the chapter जरा फिर से बताओ (Hindi) thoroughly and find out ten sentences with proper subject and predicate. (उद्देश्य और विधेय)
  - The same set of instructions (as in English) is to be followed for Hindi as well.
  - For second languages, please follow the posted link only for instructions.
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- **Learning outcomes:**
    - The students will be able to identify the subject and predicate of a sentence.
    - This interdisciplinary learning will help them to explore the topics from a different perspective and allow them to learn the same topic in both languages.
    - It will enhance their vocabulary skills in both languages.
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- **Criteria for evaluation:**
    - Concept understanding
    - Neat work and good handwriting
    - Spelling and vocabulary



## **Subject: Life Skill**

- **Topic:**15 Days Life Skill Challenge
- **Material required:**
  - Life Skill notebook
  - 5-7 pictures of the activity
  - pen, pencil
  - ruler/scale.
- **Instruction** (What you need to do):
  - Students will make a 15 Days Life Skill Challenge in their notebook (white blank page) wherein each child will make a schedule for 15 days as per their interests/ skill.
  - They can choose small tasks to help their elders at home or learn new skills.
  - They will click and paste pictures of any 5-7 activities on the white blank page and write their experience about this challenge on the ruled page.
  - They can refer to the below-given schedule for reference.

<b>15 Days Life Skill Challenge</b>				
<b>Day-1-</b> Guide your family to do meditation every day and teach them any two yogasana	<b>Day-2-</b> Dress yourself	<b>Day-3-</b> Learn to tie your shoelaces	<b>Day-4-</b> Clean and arrange your bookshelves	<b>Day-5-</b> Make morning breakfast for your family
<b>Day-6-</b> Learn to wrap your textbook/gift	<b>Day-7-</b> Make a Thank you Card for your parents	<b>Day-8-</b> Plant a sapling/herb and take care until it grows	<b>Day-9-</b> Mop a room in your house	<b>Day-10-</b> Take a nature walk with your grandparents/ parents
<b>Day-11-</b> Know when to choose emergency services	<b>Day-12-</b> Read an article from the newspaper and write a summary of it	<b>Day-13-</b> Play any board game with your grandparents/ parents	<b>Day-14-</b> Learn a new dance step on your favorite song	<b>Day-15-</b> Share a self-written story or poetry to the family members

- **Learning outcome:** Students will be able to develop strong bonds with their family members. They will get an opportunity to explore new skills and discover their latent talents. It will also help them to learn about time management, and enhance their interpersonal relationships, communication, and creative skills.
- **Criteria for evaluation:**
  - Creativity
  - Relevance
  - Uniqueness

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