MY SUMMER TIME 2026-27

Class: VIII

Topic: Water — The Blue Gold of our Planet

✨ Welcome to a summer break designed to spark your curiosity and power your potential! ☀️🚀

This year, your My Summer Time is far more than just a set of tasks—it is an invitation to join a vital global mission. The United Nations' Sustainable Development Goals (SDGs) are a blueprint for a better world, addressing our planet's most urgent challenges, from environmental protection to social equality and responsible living. Through this experiential journey, you will also explore Kaushal Bodh—an NCERT vocational education initiative aligned with NEP 2020 and NCF-SE 2023 that promotes practical learning, creativity, critical thinking, environmental awareness, and real-life skill development. By dedicating our summer projects to these goals, we are not just studying problems; we are actively designing solutions. This learning adventure will help you transform textbook knowledge into meaningful action, practical competencies, and lifelong skills

As the seniors of the middle school, your journey focuses on building a resilient and sustainable world for everyone. Through 💧 SDG 6 (Clean Water and Sanitation) and 🏙️ SDG 11 (Sustainable Cities and Communities), you will explore how smart resource management and innovative urban planning shape the future of our societies. Let's design the sustainable world of tomorrow!

THE STORY BEGINS...

*Meet **Arya**, a student from Delhi. She receives a postcard from her cousin **Leena** in Port Blair, Andaman & Nicobar Islands.*

MISSION 1: THE SOS CALL

Leena writes:
"Our island is surrounded by water, but we are running out of water to drink! The pipes leak, rainwater runs to the sea, and dirty water from homes goes straight into the ocean. Help!"
Arya becomes **Detective Aqua** and starts **"Operation Blue Island"** to solve the mystery.

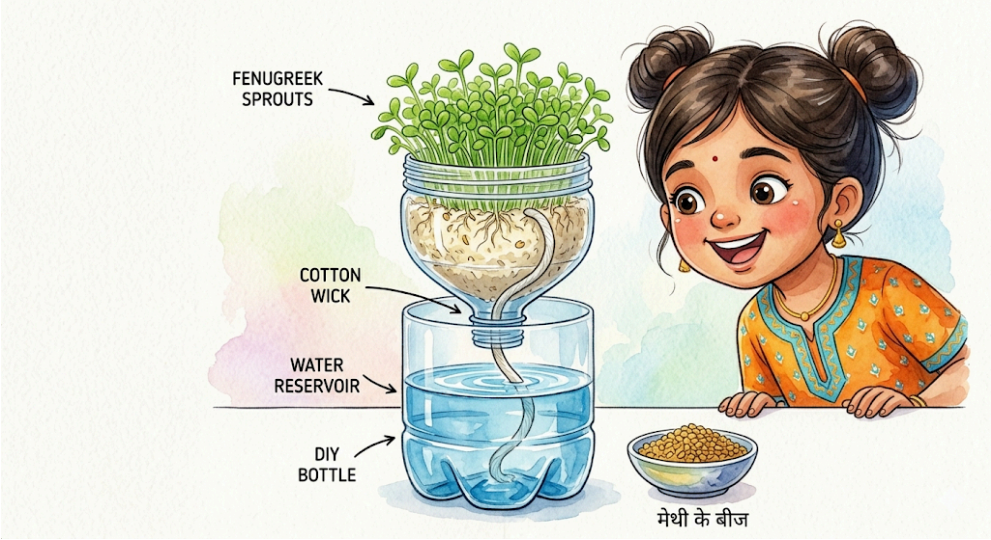
- Write a response postcard as Leena to Arya, describing the beauty of the island and the irony of water scarcity. Use descriptive language to portray the island scenery and the struggle for clean water.
- Decorate your postcard with hand-drawn pictures of coral reefs, mangroves, or the historic Cellular Jail.

Arya realised that saving water was not just about turning off taps — it was connected to science, maths, environment, and responsible living.

As part of her journey to understand the true value of water, Arya visited a desert village, where farmers struggled to grow crops due to very little rainfall and extreme heat. The dry land and long summer months made water extremely precious.

Arya began thinking deeply about how farmers could grow crops with less water. She learned about hydroponics, a method of growing plants using very little water. She was fascinated to discover that plants could grow without soil but HOW?

MISSION 2: WICK-ED GREEN - Grow More, Waste Less



Sustaining Life through Plants

To grow a plant using the wick hydroponics method and understand how it saves.

Make Your "Wick-ed Green" Planter

Use things easily available at home:

- Materials: 1 plastic bottle, 1 small cup, 1 cotton shoelace/old cloth strip, cotton/cocopeat, fenugreek/moong seeds, water.
- Steps: Follow the 3 steps from the activity – Cut bottle, insert wick, plant seeds. Ask an adult to help with cutting.

- Click Photos: Take 3 photos: Step 1 – Materials, Step 2 – Final setup, Step 3 – Plant after 7 days.

After successfully creating her "Wicked Green" hydroponic planter, Arya thought of doing a water audit.

MISSION 3: HYDROPONIC WATER AUDIT

Pour 200ml of water in the reservoir, observe the planter for 7 days and keep a record of the following observations:

DAY	WATER REMAINING (ml)	WATER USED (ml)
1		
2		
3		
4		
5		
6		
7		

On the basis of above data, analyse:

1. The total amount of water used in 7 days.
2. Average water used in 7 days.
3. If a normal potted plant uses 100 ml of water daily, how much does the hydroponic planter use per day?
4. How much water is saved in a week?
5. Find the percentage of water saved.

Arya realised that the new subject introduced in her school, Financial Literacy, had taught her the importance of budgeting and smart resource management. Inspired by this knowledge, she decided to apply her learning in real life by creating a Water Tariff Utility Budget Plan for her family.

MISSION 4: Utility Budgeting

Collect a copy of your home's **monthly water bill or electricity bill** and record the following details:

MONTH	TOTAL UNITS CONSUMED	TOTAL BILL AMOUNT	COST PER UNIT
1			
2			
3			
4			

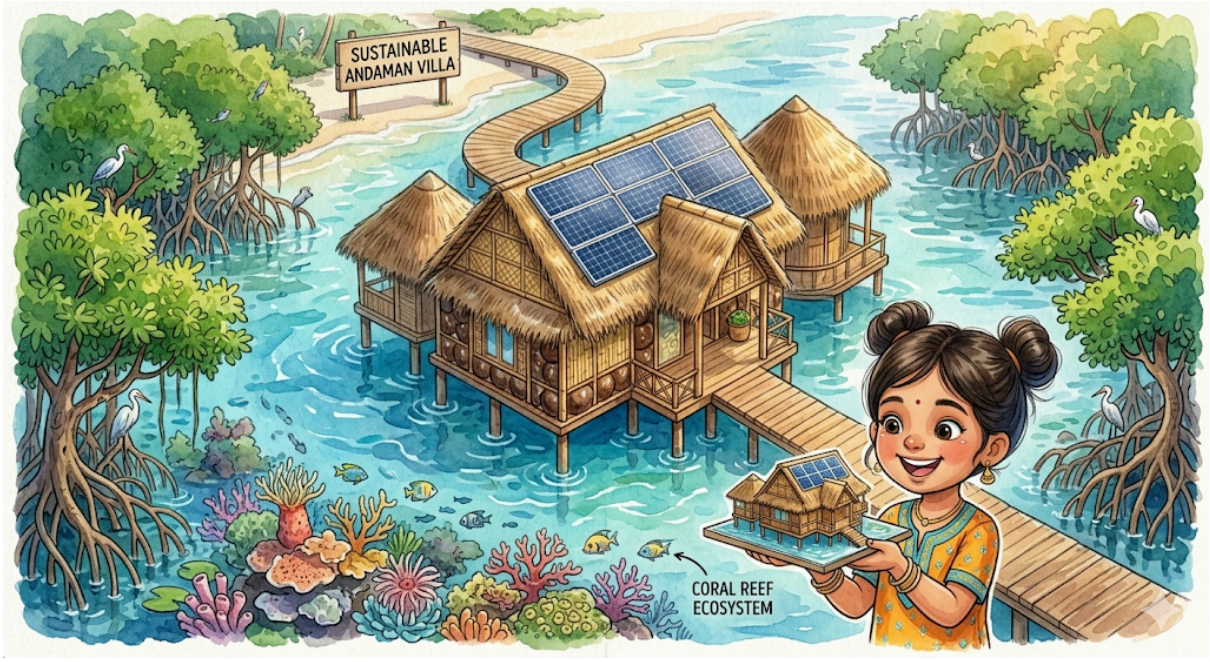
On the basis of the above data, calculate:

1. The total monthly consumption of water/electricity.
2. The cost per unit consumed.
3. Reduction in consumption required to achieve **10% saving**.

4. The estimated monthly savings in rupees after reduction.
5. The projected savings over one year.

She became even more interested in finding solutions that balanced human needs with environmental protection. She came across an advertisement of a luxury villa in Andaman promoting eco tourism.This gave her next mission.

MISSION 5: Designing the Sustainable Andaman Water Villa"



➔ To design a water villa that promotes luxury tourism without harming the fragile ecosystem of the Andaman Islands (like corals or mangroves).

- Model Making: Using sustainable materials (bamboo, coconut shells, recycled materials) to create a miniature villa.
- Sustainability Focus: Students must incorporate features like solar panels, waste management systems, and eco-friendly anchoring to protect seagrass beds.
- Presentation: Explain how their design prevents damage to the marine environment.

➔ **जल संरक्षण विषय पर एक आकर्षक 3D पोस्टर तैयार कीजिए तथा प्रभावशाली हिंदी स्लोगन लिखिए।**

➔ **Sanskrit- श्लोक लेखन। **जलं जीवनम्**:** Write 2 shlokas on the importance of water with Hindi meaning. Decorate with Andaman sea motifs .Use Calligraphy sheet .

General Instructions

1. Complete all tasks neatly and creatively in a separate scrapbook/file/folder.
2. Use coloured pens, headings, drawings, charts, and labels wherever required.
3. Write all observations and calculations clearly with proper units.
4. Use only eco-friendly and recycled materials as much as possible.
5. Click clear photographs wherever instructed and paste/attach them neatly.
6. Mention your Name, Class, Section, and Roll Number on the cover page.

7. Mission 2 & Mission 5 are model-based activities. Students must prepare the models as instructed in the mission using creative, eco-friendly, and easily available materials. The focus should be on innovation, sustainability, neat presentation, and practical understanding of water conservation and environmental protection.
9.Students should also be ready to explain the working and importance of their models during the presentation..