



## **SUMMER HOLIDAY HOMEWORK** **CLASS VII (SESSION 2023-24)**

**Assignment:** Integrated Project on Water Conservation

**Theme:** Water Conservation - Protecting Our Precious Resource

**Subjects:** Science, Mathematics, Social Science (S.Sc.), Information Technology (IT), and Artificial Intelligence (AI).

### **Problem Statement:**

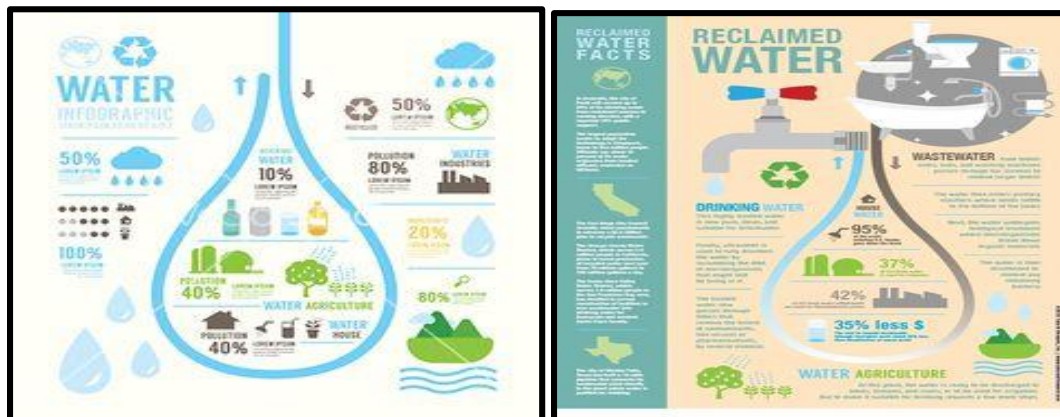
Water is a valuable resource necessary for human survival. Our goal is to estimate the amount of water that can be reused and implement water conservation practices to protect our natural resources.

**Task:** Create an Integrated Project on Water Conservation

In this assignment, you will create an integrated project that combines the knowledge and skills from multiple subjects to promote water conservation. You can choose to present your project in one of the following formats: PowerPoint presentation, video, or PDF document.

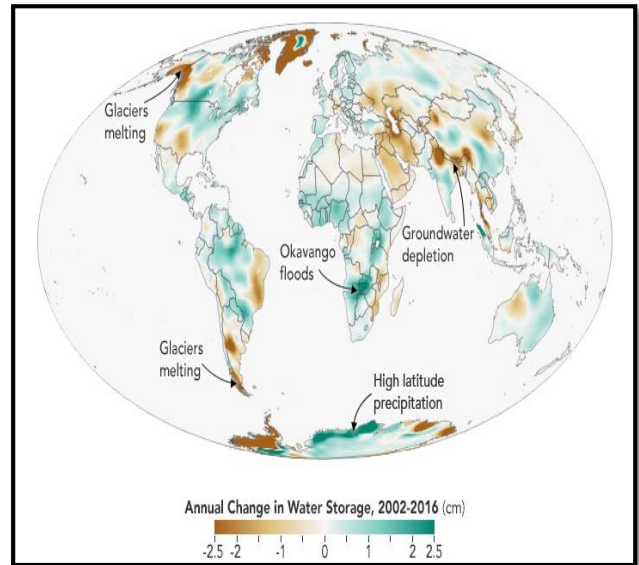
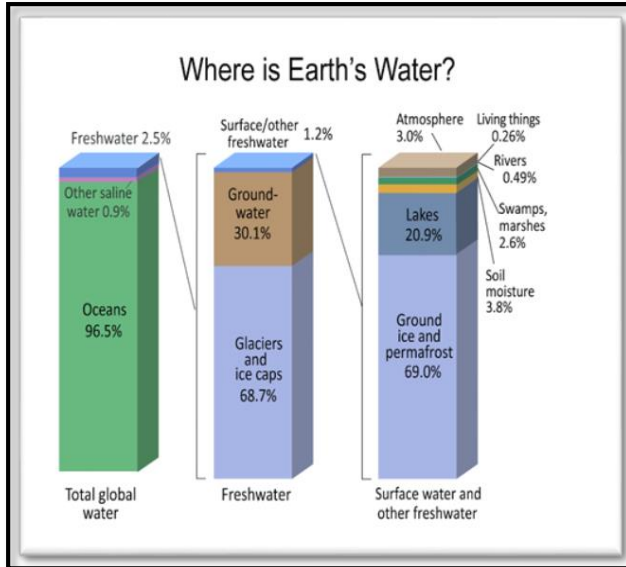
### **Science:**

Investigate the amount of water drained out from the RO water purifying system during the purification process. **Collect data on the wastewater generated by an Aquaguard system(RO) in your family over a Month. Find solutions and propose green practices to save water.** Emphasize the importance of adopting greener habits to conserve water and other natural resources. Raise awareness by **designing digital informative "green wheel" boards to educate others about water conservation.**



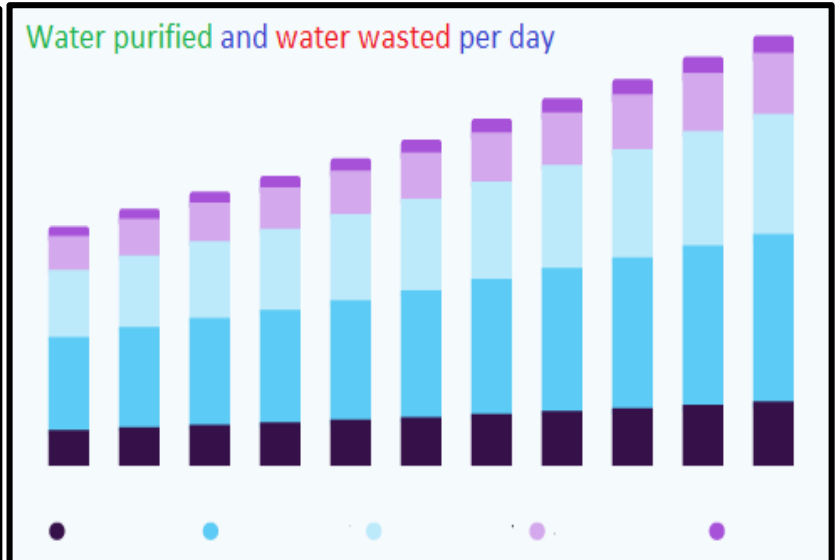
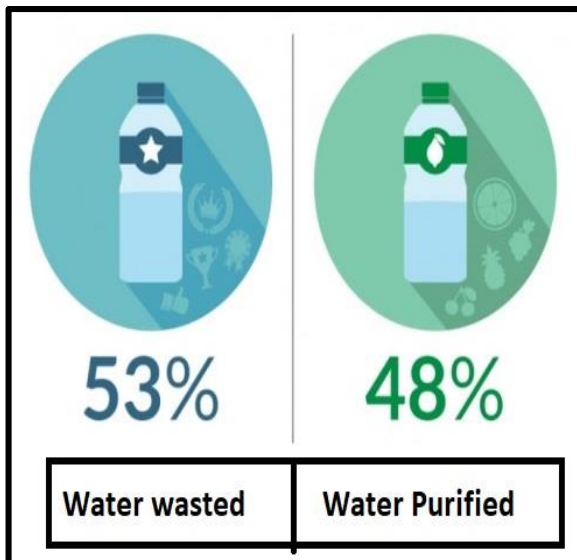
**Social Science:**

Explore and identify various sources of fresh water on Earth to understand their distribution. Collect data on the availability of fresh water from these sources. Analyze the data to gain insights into global water resources and discuss the importance of preserving them.



**Mathematics:**

Estimate total amount of water wasted in a year, from the data you have collected on the wastewater generated by an RO system. Represent your findings using charts, graphs, and any spreadsheet software to illustrate the impact of water conservation. Propose practical ways to reuse the wastewater from your water purifying system.



## **Information Technology (IT):**

Create a visually engaging presentation or video (in .mp4 format) to support an app development activity focussed on water conservation. Utilize transitions, features, and animations to enhance the visual appeal of your presentation. The app should provide information and tips on how to save water in daily life.

## **Artificial Intelligence (AI):**

Develop a chatbot using machine learning for a web-based application. The chatbot should be capable of answering user questions related to different sources of water, such as groundwater, rivers, oceans, and seas. Train the chatbot using at least five examples for each water source. Use an appropriate icon for the chatbot and include 4 to 5 screenshots of the project in the presentation. Attach the project link to a slide in the PowerPoint presentation.



- Link <https://machinelearningforkids.co.uk/>
- Link for reference sheet

[https://drive.google.com/file/d/1jJw1EZzqsDKwUpXY\\_2fwWUAGsyTnpsro/view?usp=drivesdk](https://drive.google.com/file/d/1jJw1EZzqsDKwUpXY_2fwWUAGsyTnpsro/view?usp=drivesdk)

## **Submission:**

Submit your integrated project as a single file in one of the following formats: PowerPoint presentation (PPT/PPTX), video file (MP4/AVI), or PDF document. Ensure that your project covers all the subjects mentioned above and clearly demonstrates the integration of knowledge and skills.

## **Assessment Criteria:**

Your project will be evaluated based on the following criteria:

- Depth of research and understanding of the subject matter.
- Integration of concepts and ideas from different subjects.
- Clarity and organization of the presentation.
- Creative and engaging use of multimedia elements.
- Evidence of critical thinking and problem-solving skills.
- Overall coherence and quality of the project.

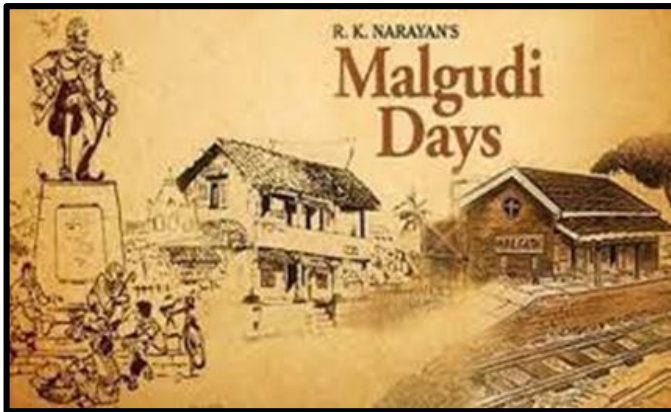
**Note:** Please adhere to any additional guidelines provided by your teacher regarding the length of the project, submission deadline, and any specific requirements for each subject.

## **Learning Outcomes:**

By completing this integrated project, you will:

1. Learn how to collect, prepare, represent, and analyze data.
2. Develop a gaming environment that promotes learning and understanding of water conservation.
3. Train and create an AI model using Teachable Machine to enhance your technological skills.
4. Develop a creative mindset, organizational skills, and leadership abilities while working in groups on the project.
5. Understand the importance of saving natural resources, particularly water, as it is the elixir of life.

## ENGLISH



1. On an A3 size sheet design an advertisement around the information you find about 'Malgudi Days'. Make it visually appealing and present it in class.

2. Write a short poem of two stanzas on one of the given themes. Use related illustrations too.

- a) Nature
- b) Insect
- c) Seasons

### Hints:

- Think and decide on a subject or theme for your poem.
- Decide on a rhyme scheme.
- Prepare a list of words that rhyme with each other.
- Use the list to write down your poem. At the end, give your poem a suitable title.



3. Complete the Assignment of April- May Month in your Grammar Notebook.

## HINDI



1. निम्नलिखित कार्य निर्देशित अनुक्रमांक के अनुसार करें -

- नदियाँ सदा से ही हमारे लिए पूजनीय रही हैं। उनके किनारे अनेक तीर्थ स्थल बने हैं जिससे ये पर्यटकों के लिए सदा से ही आकर्षण का केंद्र बनी हैं। ऐसे ही किसी एक तीर्थ स्थल का भ्रमण करने के लिए एक विवरणिका (Brochure) के रूप में आकर्षक विज्ञापन तैयार करें। साथ ही उस नदी का नाम, उद्गम स्थान, सागर में मिलने का स्थान आदि भी स्पष्ट करें। (अनुक्रमांक 1 से 25 तक)
- भारत की प्रमुख नदियों में से किसी एक नदी का सांस्कृतिक, सामाजिक व आर्थिक महत्त्व स्पष्ट करते हुए उसके संरक्षण हेतु किए जाने वाले प्रयासों पर आधारित 20 से 24 पंक्तियों की स्वरचित कविता A3 साइज रंगीन शीट पर लिखकर चित्र सहित एक आकर्षक कार्ड बनाइए। (अनुक्रमांक 26 से अंतिम अनुक्रमांक तक)
- 2. कक्षा में चर्चा-परिचर्चा हेतु 'बाल महाभारत कथा' पूरक पाठ्यपुस्तक से पृष्ठ 1 से 21 पृष्ठ का अध्ययन करें।
- 3. गुरुदेव 'रवींद्रनाथ टैगोर' द्वारा लिखित अमृत संचय की 'फूल का मूल्य', 'धन की भेंट' एवं 'अंतिम प्यार' कहानियों का वाचन कौशल परीक्षा हेतु पठन-पाठन कीजिए।
- 4. अब तक पढ़ाए गए सभी पाठों का पुनराभ्यास करें तथा अपनी कार्यपत्रिका का कार्य पूर्ण करें।

शिक्षण अधिगम -

- छात्र भारतीय संस्कृति से परिचित होंगे व प्राकृतिक संसाधनों के संरक्षण हेतु प्रेरित हो सकेंगे।
- छात्रों में रचनात्मकता व खोज प्रवृत्ति विकसित होगी।
- पठन - पाठन द्वारा विद्यार्थियों में स्वाध्ययन की भावना एवं हिंदी साहित्य के प्रति रूचि जागृत होगी।

### SANSKRIT

1- भारत में स्थित किसी एक जंतुशाला का चित्र बनाएँ व उससे सम्बन्धित संस्कृत में पाँच वाक्य लिखें।



2-प्रथम चक्रीय परीक्षा हेतु पठित पाठों का पुनराभ्यास करें।

3- रूप याद करें-

शब्दरूप- साधु, मति, नदी, (किम्, तत् - तीनों लिंगों में)

धातुरूप- गम्, भू, पा, दृश्, अस् ( लट्, लृट्, लङ् लकार में)

4- पाठाधारित कार्यपत्रिका को उत्तरपुस्तिका में पूर्ण करें।

अधिगम परिणाम:-

- वाक्य निर्माण प्रक्रिया का ज्ञान व शब्द भंडार में वृद्धि।
- संस्कृत लेखन कौशल का विकास।
- भाषा संबंधी व्याकरणिक ज्ञान।
- चिंतन कौशल का विकास।

## FRENCH



Décrivez quelques monuments français et collez leur image dans votre cahier.

Describe any 5 famous French monuments in French language (around 30 words each) and also paste their image.

### **DATE OF SUBMISSION:**

<b>S.NO</b>	<b>SUBJECT/S</b>	<b>DATE</b>
<b>1</b>	Integrated Project on Water Conservation Subjects: MATHEMATICS, SCIENCE, SOCIAL SCIENCE, IT & AI	<b>5<sup>th</sup> July 2023</b>
<b>2</b>	<b>HINDI AND FRENCH</b>	<b>6<sup>th</sup> July 2023</b>
<b>3</b>	<b>ENGLISH AND SANSKRIT</b>	<b>7<sup>th</sup> July 2023</b>

Please note that the weightage of holiday homework is 20 marks.