



Bal Bharati
PUBLIC SCHOOL

Sector-21, Noida, G.B. Nagar

SUMMER HOLIDAY

HOMEWORK

CLASS VIIth

SESSION 2024-25

AIoT PROJECT

THEME : WATER

ENGLISH

Dear Students

Water is an essential element of life, covering most of our planet and playing a vital role in various aspects of our lives. Through the following assignments, you have the opportunity to :

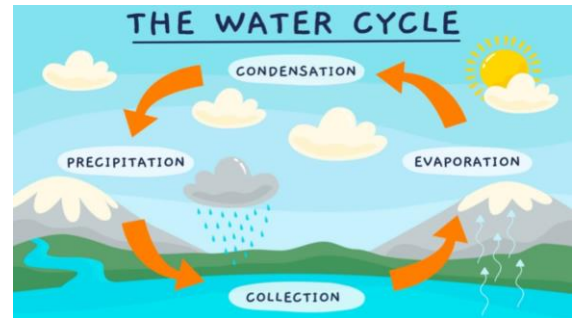
- delve into the wonders of water through reading, writing, and creative activities.
- deepen your understanding of water and its significance
- have fun exploring and expressing your thoughts and ideas about this essential element.



ASSIGNMENT 1: CREATIVE WRITING

JOURNEY OF A RAINDROP

Imagine you are a drop of water. Write a short story describing your journey through the water cycle. Include details about your experiences as rain, a river, and eventually reaching the ocean. Be creative and think about the obstacles you might encounter along the way.



OR

RIPPLES OF REFLECTION: A POETIC ODE TO WATER

Write a poem about the beauty and power of water. Consider using descriptive language and sensory details to convey the importance of water in our world. Your poem can take any form (e.g., free verse, haiku, rhyming couplets) but should capture the essence of water.

ASSIGNMENT 2: RESEARCH PROJECT



Choose a specific issue related to water (e.g., pollution, access to clean water, water scarcity) and conduct research to learn more about it. Create a **PRESENTATION/POSTER/VIDEO** using ADOBE SPARK summarizing your findings, including causes, effects, and possible solutions to the issue. Be prepared to share your project with the class after the holidays.

SKILLS DEVELOPED: creativity, self-awareness, imagination, analytical skills, and critical thinking

HINDI

1- 'हिमालय की बेटियाँ' पाठ के आधार पर 'राष्ट्रीय नदी संरक्षण योजना (NRCP) अभियान पर एक अनुच्छेद लिखिए तथा Adobe express (<https://new.express.adobe.com/>) सहायता से जल संरक्षण पर एक पोस्टर तैयार कीजिए ।



2- पूरक पुस्तक 'पिटारा' कहानी संग्रह की प्रथम पाँच कहानियों को पढ़ें तथा किसी एक कहानी पर कक्षा की बाल सभा में अपने साथियों के सहयोग से समूह में प्रभावशाली नाट्य मंचन प्रस्तुत करें ।

3- अप्रैल व मई की कार्यपत्रिका हिंदी व्याकरण की कॉपी में हल करें । प्रथम चक्रीय परीक्षा हेतु पठित पाठों का पुनराभ्यास करें ।

शिक्षण अधिगम परिणाम:-

- हिंदी साहित्य के प्रति रुचि एवं विकास ।
- भाषा कौशल व व्याकरण का विकास ।
- रचनात्मक लेखन, सृजनात्मकता तथा भावाभिव्यक्ति का पल्लवन ।
- मनन-चिंतन का विकास तथा मौलिकता में अभिवृद्धि ।

SANSKRIT

1- 'वैभवस्य जन्मदिवसः' इस पाठ के आधार पर अपने मित्र/ परिवार के सदस्यों को जन्मदिन की संस्कृत में बधाई देते हुए ADOBE SPARK (<https://www.adobe.com/in/>) पर एक कार्ड बनाएँ ।



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

3- रूप याद करें-

शब्दरूप- देव, 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 ।

शिक्षण अधिगम परिणाम:-

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

SCIENCE



Aim- To prepare a Web based app/webpage using Adobe Express to calculate the amount of water wasted from Aquaguard and methods to conserve water both at home and school.

OBJECTIVE- To enhance human capacities for effective human-machine collaboration in life, learning, work and for sustainable development.

STEPS TO FOLLOW-

Planning and Research- The planning stage should occur immediately after you have imagined your idea for an app.

Prototyping- Prototyping is the stage where you start rapidly producing wireframes and iterating on user feedback.

Design and Development

Data Fusion Testing and Submission

PPT should be prepared as a support system.

NOTE- Integrated with Maths and Social Sciences

ASSESSMENT CRITERIA- Engagement, developmental appropriateness, instructional design, accessibility and creativity.

MATHEMATICS



ACTIVITY 1: (AIOT Project)

Survey to Find the Best Reverse Osmosis (RO) System with Least Water Wastage

In this assignment, you will conduct an offline/online survey to find the best Reverse Osmosis (RO) system

available in the market with the least water wastage. You will analyze the data collected and perform mathematical calculations to determine the most efficient RO system based on water wastage.

Task 1: Data Collection: Collect data from at least 5 brands available in the market related to water wastage. Compile the information and organize the data for analysis. Create a spreadsheet or database to store the information collected.

Task 2: Comparison of RO Systems: Compare the water wastage rates of different RO systems to identify the one with the least water wastage.

Task 3: Report and Recommendations

1. **Summary of Findings:** Write a report summarizing the survey results and your analysis of the RO systems' water wastage rates. Represent your findings using **charts, graphs, and any spreadsheet software** to illustrate the impact of water conservation.
2. **Recommendation:** Based on your analysis, recommend the best RO system with the least water wastage for consumers to consider. Justify your recommendation using evidence from the survey data and any additional research conducted.



Task 4: Propose at least 5 practical ways to reuse the wastewater from your water purifying system

(Project to be done in a group of six students. The findings will be creatively presented using one of the mentioned online platforms- Adobe, Canava, Sway)

LEARNING OBJECTIVES:

Data Collection and Analysis Skills: Conducting a market survey involves collecting data from target audiences, organizing it, and analyzing it for meaningful insights. This helps students develop skills in data collection, organization, and analysis.

Communication Skills: Presenting survey findings effectively requires strong communication skills. Students can learn how to articulate their findings clearly, create compelling visualizations, and deliver engaging presentations to diverse audiences.

Critical Thinking and Problem-Solving: Analyzing survey data involves critical thinking and problem-solving skills. Students learn to identify patterns, draw conclusions, and make recommendations based on evidence gathered from the survey.

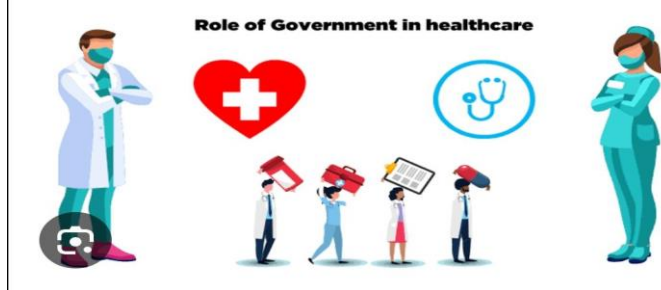
ACTIVITY 2: Solve all the examples of Chapter 1, 2 & 3 in your Maths Notebook. Solve all the assignments of Chapter 1, 2 & 3 posted in Google Classroom in your Maths Notebook. Practice all these chapters thoroughly for Round 1 Examination scheduled on 19 July 2024.

SOCIAL SCIENCE

1. Revise all the chapters done so far.
2. Prepare a short story using a comic strip on the topic “Role of Government in Health”.

ASSESSMENT CRITERIA-

- Supported with relevant examples, facts, etc.
- Clarity, and Engagement



3. Prepare a poster on Adobe and give it a tagline and paste a screenshot on Google classroom under the assessment on any one of the following topics:

a. Clean water and Sanitation: SDG -Goal 6

OR

b. Democracy V/S Dictatorship

Objective: When designing a poster, plan its design carefully. You will have a short amount of time to attract and hold your readers' attention. Think about the one aspect of the information that must convey the message and plan your design around that.

Learning Outcomes: Creative thinking, Extensive research and reading and communicating effectively with their peers and/or audience.

*Note : Integrated with English language and IT

ARTIFICIAL INTELLIGENCE (AI):

- Using the Generative AI tool in Adobe Firefly/Adobe Express ,Create a series of digital artworks inspired by nature, with a focus on water themes such as oceans, rivers, or waterfalls. Download the pictures.
- Experiment with different styles(painting, drawing, brush stroke, pop art, clipart etc.) and parameters to see how the AI-generated images change, and write a reflection on the creative process and the role of AI in art on an A4 sheet. Paste the pictures generated on it.

Please note: The Holiday Homework will be considered for Project Based Assessment and has a weightage of 10 marks in each subject.

SCHEDULE FOR SUBMISSION OF HHW

S NO.	SUBJECTS	DATE OF SUBMISSION
1.	Science & Sanskrit	4th July, 2024
2.	Social Science, English& AI	5th July,2024
3.	Hindi & Maths	8th July,2024