



**Bal Bharati**  
**PUBLIC SCHOOL**  
NTPC-NSTPS, NABINAGAR, AURANGABAD, BIHAR-824303  
CBSE AFFILIATION NO. 330932

# Summer Holiday Homework

SESSION: 2025-26



**I AM** \_\_\_\_\_  
**I STUDY IN** \_\_\_\_\_  
**MY ROLL NO. IS** \_\_\_\_\_





## ***PRINCIPAL MESSAGE***

Dear Parents,

Greetings of the day! As we approach the summer vacation, I would like to extend my heartfelt thanks to you for your constant support and cooperation throughout the academic session so far. Together, we have been able to guide and motivate our students towards holistic growth and now it's time for them to take a well-deserved break.

Summer is a season of both fun and caution. We request you to kindly ensure that your ward stays hydrated, eats nutritious seasonal fruits, and avoids going out during peak heat hours. Encourage them to wear light, comfortable clothing and follow a healthy daily routine.

This break is also a wonderful opportunity for children to develop life skills, pursue hobbies, read good books and spend quality time with family. We encourage you to engage your child in constructive activities, light revision and creative learning experiences that enhance their curiosity and confidence. You can teach your ward tasks which will lead him/her to be self-dependant. Some of the tasks include age appropriate cooking, cleaning, gardening, household purchases, housekeeping etc. Please do not forget prayers and expression of gratitude. Also, have family meals together and develop good bonding within the family.

We also request your support in ensuring that the holiday homework is completed sincerely and submitted on time. While academics are important, this break should also be a time for rest, reflection and emotional well-being.

Let us work together to make this summer break safe, healthy, and enriching for our children. Looking forward to welcoming them back refreshed and re-energized.

Warm regards,

Sarika Kute

Principal

Bal Bharati Public School, Nabinagar



## **SUBJECT: ENGLISH**

- Q1. Read any novel and write a review of your own in about 150 words.
- Q2. Prepare a collage showing participation of India in Paralympics. Also highlight the major events of achievements and the Indian sports persons
- Q3. Describe any tourist place that you want to visit with your parents. during this Summer. Attach some relevant photos for your purpose. (150 words)
- Q4. You have read the poem – “Be the Best whatever you are”. How does the poem encourage you? Find and write the poetic devices used in the poem.
- Q5. Write about the games you like to play with your friends. What difficulties you face while organizing the team, in about 150 words.
- Q6. Take an interview of your Parents or guardian or any close relative for their work, achievement and world view. Note down the conversation, in about 120 words.
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## **SUBJECT: HINDI**

1. जयशंकर प्रसाद/प्रेमचंद की कोई एक कहानी पढ़ें एवं अपने पसंदीदा पात्र के बारे में लिखें।
  2. हिमालय से निकलने वाली नदियों के बारे में जानकारी प्राप्त करें तथा प्रमुख नदियों एवं सहायक नदियों की सारणी बनाएँ।
  3. हिमालय का भारतीय अर्थव्यवस्था तथा सुरक्षा में क्या योगदान है ? जानकारी प्राप्त कीजिए तथा लिखिए।
  4. अगर पक्षी बोलने लगें तो वे अपनी क्या कहानी बताएँगे ? उन्हीं के शब्दों में लिखिए।
  5. कविता-‘हम पंछी उन्मुक्त गगन के’ को अपनी बोली अथवा मातृभाषा में अनुवाद करके लिखिए।
  6. घर में उपलब्ध पुराने कपड़ों से एक कठपुतली बनाइए तथा ग्रीष्मावकाश के उपरांत कक्षा में प्रस्तुत कीजिए।
  7. कक्षा- पत्रिका के लिए कोई एक कहानी/कविता/चुटकुला/तथ्य-संग्रह लिखिए।
  8. लेख सुधार के लिए प्रतिदिन एक पृष्ठ सुलेख लिखिए।
- परियोजना कार्य - ग्रीष्मावकाश के दौरान फिल्म –‘अनोखा बंधन’ देखिए तथा संक्षेप में अपने विचार लिखिए। जैसे – फिल्म कैसी लगी, फिल्म का विषय क्या है, गीत-संगीत कैसा है, अब कौन कौन-से बदलाव आए हैं आदि।
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## **SUBJECT: SANSKRIT**

1. संस्कृतशब्दार्थः स्मरणीयाः(Remember Sanskrit Words with meaning) Chapter 1+2

2. धातुरूपाणि- पठ्, खाद् (लट्, लृट्, लङ्)
3. शब्दरूपाणि- देव, लता, मुनि
4. अत्र, तत्र, कुत्र, सर्वत्र, अद्य, अधुना, ह्यः, श्वः, पुरा, यदा, तदा इन अव्यय पदों से 1-1 वाक्य बनाइए ।
5. किंही पाँच सुभाषितानि को अर्थ सहित लिखिए ।
6. संस्कृत में 25 तक संख्या लिखकर याद कीजिए ।
7. छात्र चार्ट पेपर पर लट्, लृट्, लोट् लकार के प्रत्यय तथा गम्, भू तथा पा धातुओं के रूप लिखकर कक्षा में टाँगें।

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## SUBJECT: 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 4 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 Following.

Q1) Write down a pair of integers whose difference is  $(-5)$ .

Q2) Evaluate: a)  $15 + (-8)$  b)  $(-48) + (-36)$

Q3) Subtract:  $(-134)$  from the sum of  $(+38)$  and  $(-87)$ .

Q4) What must be subtracted from  $(-3)$  to get  $(-9)$ ?

Q5) If  $a = -8$ ,  $b = -7$ ,  $c = 6$ , verify that  $(a + b) + c = a + (b + c)$

Q6) Find the following products: a)  $3 \times 4 \times (-5)$  b)  $(-6) \times 6 \times (-10)$  c)  $(-5) \times (-8) \times (-3)$

Q7) In a class test containing 10 questions, 5 marks are awarded for every correct answer,  $(-2)$  marks are awarded for every incorrect answer and 0 for each question not attempted.

a) Ravi gets 4 correct and 6 incorrect answers. What is his score?

- b) Reenu gets 5 correct and 5 incorrect answers. What is her score?
- c) Heena gets 2 correct and 5 incorrect answers. What is her score?
- Q8) Which of the following statements are true or false?
- a) The product of a positive and a negative integer is negative.
- b) The product of two negative integers is a negative integer.
- c) The product of three negative integers is a positive integer.
- d) Every integer when multiplied by  $-1$  gives its multiplicative inverse.
- Q9) Each side of a square field is 423m. Find its area.
- Q10) Find the area of a rectangular park which is 4123 m long and 1835m broad.
- Q11) Find the product: a)  $4.8 \times 1000$       b)  $3.65 \times 19$       c)  $7.6 \times 2.4$   
    d)  $3.45 \times 6.3$       e)  $0.045 \times 2.4$       f)  $0.54 \times 0.27$
- Q12) Divide: a)  $131.6 \div 10$     b) 4.6 by 1000    c) 2.25 by 15    d) 31 by 40    e)  $18.08 \div 400$     f)  $0.288 \div 0.38$
- Q13) The product of two decimal is 261.36. If one of them is 17.6, find the other

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**SUBJECT: SCIENCE**

ASSESSMENT PARAMETER	Multiple Assessment Strategy (MAS) – 5 marks  Project Based Assessment (PBA) – 5 marks
TOPIC-PROJECT / ACTIVITY	<p><b>SCRAPBOOK:</b></p> <p>Nutrients are the components found in our food such as carbohydrates, vitamins, minerals, fats, etc. These components are necessary for living organisms to survive. Plants produce their food while animals and human beings do not produce their food. We indirectly or directly depend on plants and animals for our food needs. Make a scrapbook showing the different modes of Nutrition in Plants.</p> <p><b>INSTRUCTIONS:</b></p> <ol style="list-style-type: none"> <li>1. Page limit - 4 to 8 pages.</li> <li>2. Draw or paste relevant pictures</li> <li>3. You may use AI Tools such as Gemini, Co-pilot etc. for generating images and finding content.</li> </ol>
	<p><b>A) The basic types of nutrition are plants</b></p> <ol style="list-style-type: none"> <li>1. Autotrophic Nutrition:</li> </ol>



<b>COMPETENCY BASED/CASE BASED</b>	<p>Organisms which obtain nutrition by preparing their own food from simple inorganic substances are called autotrophs. They use sunlight, carbon dioxide (from the air), and water (from the soil) to manufacture glucose and release oxygen as a by-product. This process is known as photosynthesis. The green pigment chlorophyll, present in the leaves, traps sunlight, which provides the energy required for this process.</p> <p><b>2. Heterotrophic Nutrition:</b></p> <p>Heterotrophic Nutrition: Heterotrophic nutrition is the mode of nutrition in which organisms obtain readymade organic food by depending upon other organisms.</p> <ol style="list-style-type: none"> <li>1. How does Chlorophyll take part in Photosynthesis?</li> <li>2. Why heterotrophic organisms cannot prepare their own food? Does it mean that they never depend upon plants for their survival?</li> <li>3. Can we include the nutrition of insectivorous plants in heterotrophic nutrition?</li> </ol> <p><b>B) Choose the correct odd one out from each group and give reasons.</b></p> <ol style="list-style-type: none"> <li>i) stomach, pancreas, liver and salivary glands</li> <li>ii) salivary glands, liver, starch, gall bladder</li> <li>iii) oesophagus, rectum, large intestine and small intestine</li> </ol>
<b>RESOURCE FOR PROJECT</b>	<a href="https://www.youtube.com/watch?v=I3IS-hWEsAc">https://www.youtube.com/watch?v=I3IS-hWEsAc</a>
<b>LEARNING OUTCOME</b>	<p>Each learner will be able to</p> <ol style="list-style-type: none"> <li>1. Gain a practical understanding of how plants use sunlight to produce food and oxygen.</li> <li>2. Enhance his/ her ability to observe and document scientific phenomena.</li> <li>3. Practice recording data and analyzing their findings.</li> </ol>
<b>MODE OF SUBMISSION</b>	Offline – The scrap book and the notebook are to be submitted to the subject teacher.
<b>RUBRICS</b>	<p>Overall Presentation -3 Marks</p> <p>Research and Documentation -2 Marks</p>

	Content Accuracy -2 Marks
	Use of Visuals/ Images -2 Marks
	Timely Submission -1 Mar

## **SUBJECT: SOCIAL SCIENCE**

### **Enrichment Activity/Project: I**

#### Gender Stereotype Word Search

**Competency:** Critical Thinking | Identifying Stereotypes  
Activity:

- Prepare a word search puzzle that includes terms related to gender stereotypes (e.g., ‘housewife’, ‘breadwinner’, ‘nurturing’, ‘tough’ etc.).
- After solving, students must discuss, how each stereotype impacts boys and girls differently?

Extension Question:

How can we challenge these stereotypes in our daily lives?

#### **Learning Outcome:**

Students will learn to recognize common gender stereotypes and understand how they affect both boys and girls in different ways. By discussing the impact of these stereotypes, students will develop critical thinking skills and become more aware of how societal expectations shape behavior.

### **Enrichment Activity/Project: II**

#### Weather Condition Chart – 15 Days

**Competency:** Analytical Thinking | Environmental Literacy

**Activity:**

- Students collect daily weather reports (temperature, rainfall, humidity) for 15 consecutive days from their local newspaper or internet sources.
- Prepare a weather chart/table showing maximum and minimum temperatures, rainfall, and humidity for each day.
- Use color coding, symbols (☀️ ☁️ ❄️ 🌊) and graphs, to make the chart visually attractive.

#### **Extension Question:**

Based on your data, what type of climate does your locality have during this period?  
How do local people adapt their homes, clothing, and lifestyle to suit this climate?

#### **Learning Outcome:**



They will develop skills in organizing data, using charts and graphs to represent weather conditions such as temperature, rainfall, and humidity. Students will also improve their ability to interpret environmental data, helping them understand local climate patterns better.

### **Enrichment Activity/Project: III**

Build a Political Party and Write a Manifesto

**Competency:** Civic Engagement | Leadership Skills

#### **Activity:**

- In groups, students form a political party and write a manifesto focusing on issues such as education, healthcare, gender equality, and environment.
- Present their party's goals, slogans, and action plans in front of the class as if running for election.

#### **Extension Question:**

How would your manifesto improve the lives of people in your community?

Learning Outcome: By creating and presenting a manifesto, students will improve their public speaking and presentation skills, learning how to express ideas clearly and persuasively. The activity also encourages teamwork, as students collaborate to form a cohesive political platform.

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## **SUBJECT: COMPUTER**

### **Chapters Covered:**

- **Chapter 1:** Number System
- **Chapter 2:** GIMP

### **Instructions:**

Dear Students,

Please complete the following assignments during the summer break. Submit all work neatly and on time when school reopens.

### **Homework Tasks:**

#### 1. **Notebook Completion:**

- Complete all **Q&A** from both chapters in your notebook
- Include:
  - **MCQs,**
  - **True/False,**
  - **Fill in the blanks,**
  - **Conversions** (Decimal to Binary, Octal, Hexadecimal)
- Practice at least **5 conversions** for each type.

2. 🧠 **Art Integrated Project (Hard Copy):**

- Create a colorful chart or poster on any one topic:
  - Types of Number Systems
  - Uses of GIMP in digital design
- Use drawings, symbols, and examples

3. 💻 **GIMP Activity (Basic Design Task):**

- Open GIMP software and create a **simple digital poster** on the theme:  
*“Save Earth” or “My School”*
- Use **basic tools only**: Text tool, shape tool, bucket fill, colors, and layers
- Save the file and bring a **printout** (if possible) or **screenshots** in your practical file

📅 **Submission Date: First working day after summer vacation**

📌 **Note:**

- Make sure all written and practical work is done **neatly and independently**
- Label your files and printouts properly

**Enjoy your holidays, explore your creativity, and make learning fun! ✨**