



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. Make a table of different grains & vegetables, mentioning with the suitable Seasons, Climates and temperature for their cultivation.

What are the precautions to be taken to avoid losses from hailstorm in cultivation of Corns? (Word limit - 200 words)

Q2. Find and write the literary devices used in the story "A Letter to God" with their examples. (15 sentences)

Q3. Imagine you are Anil from the "Thief's story". After the better change in Hari Singh you decided to write an article on the topic 'Thieves are not born, they are made' in about 200 words.

Q4. Read a novel or collection of stories and write a review in about 200 words.

Q5. Write a paragraph on Nelson Mandela's struggle for freedom, in about 150 words.

Q6. Teach English to any needy of your younger for one or two days. Write how you feel yourself as a teacher and write the challenges you face while teaching. Also suggest the best method of teaching to be implemented. (200 words)

विषय- हिंदी

1. मुंशी प्रेमचंद/रवीन्द्रनाथ टैगोर की कोई एक कहानी पढ़ें एवं अपने पसंदीदा पात्र के बारे में लिखें ।
2. अगर आप बड़े भाई साहब की जगह होते तो क्या करते? लगभग 50-60 शब्दों में लिखिए ।
3. आज समाज और परिवार के रिश्ते बिगड़ते जा रहे हैं । इसके क्या कारण हैं ? इस समस्या का समाधान क्या हो सकता है ?

इस बारे में बड़े-बुजुर्गों से हुई बातचीत को संवाद के रूप में लिखिए ।

4. अगर आपको आज की शिक्षा व्यवस्था में सुधार करना हो तो आप क्या-क्या सुधार करना चाहेंगे और क्यों?
5. ऐसा कहा जाता है कि विद्यार्थी-जीवन किसी व्यक्ति के जीवन का सबसे महत्वपूर्ण दौर होता है । अपने दादा-दादी, नाना-नानी अथवा बड़े-बुजुर्गों से बात करके पता लगाइए कि उनके विद्यार्थी-जीवन और आपके विद्यार्थी-जीवन में क्या अंतर हैं ?

6. पाठ-'बड़े भाई साहब' को छोड़कर पाठ्यपुस्तक 'स्पर्श' से कोई दस मुहावरे छाँटकर लिखिए ।

7. "आज भी समाज में कई हरिहर काका न्याय की प्रतीक्षा में हैं ।" -कथन के पक्ष अथवा विपक्ष में अपने तर्क लिखिए ।

8. कबीर के दोहों में से किसी एक दोहे को स्पष्ट लिखावट में चार्ट-पेपर पर अर्थ सहित लिखिए ।

9. कक्षा- पत्रिका के लिए कोई एक कहानी/कविता/चुटकुला/तथ्य-संग्रह लिखिए ।

10. मीराबाई का कोई एक लोक-प्रचलित भजन लिखिए ।

परियोजना कार्य - ग्रीष्मावकाश के दौरान राज कपूर व वहीदा रहमान अभिनीत फिल्म -'तीसरी कसम' 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 ।

SUBJECT: MATHEMATICS

1. **Project Title:** "Polynomials in Real Life – A Mathematical Investigation"

Objective:

To explore, understand, and apply the concept of polynomials through real-life contexts, graphical analysis, and creative representation.

Project Guidelines:**Part 1: Concept Review**

Define polynomial, degree, terms, coefficients, and types (linear, quadratic, cubic, etc.).

Include examples for each type.

Illustrate addition, subtraction, and multiplication of polynomials with solved problems.

Part 2: Real-Life Application

Choose one real-life scenario where polynomial modeling can be applied. Some examples:

Projectile motion (e.g., ball thrown in the air — quadratic polynomial)

Profit and revenue models in business

Area and volume calculations using polynomial expressions

Population growth trends modeled with polynomial graphs

Students must:

Create or use a real/simulated dataset.

Develop a polynomial function to model the situation.

Plot the polynomial using graph paper or software (like Desmos or GeoGebra).

Interpret the graph — roots, turning points, increasing/decreasing intervals, etc.

Part 3: Creative Touch

Design a poster, brochure, or short presentation explaining their project using visuals, charts, and equations.

Part 4: Reflection

Write a short paragraph on:

What they learned about polynomials

Challenges faced during the project

How this changed their view of math in real life

Submission Format:

Neatly compiled PDF or project file (typed or handwritten)

Graphs can be drawn or printed

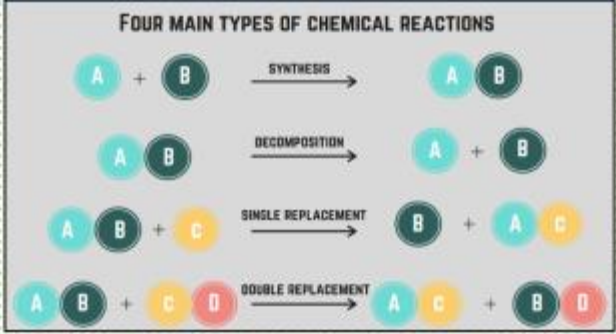
2. Subject Enrichment Activity:

Maths lab activities on the following topics are to be completed in Maths Lab Manual.

- HCF of two numbers.
- To obtain the condition of consistency for a system of linear equations in two variables by graphical method.
- Verification of Basic Proportionality Theorem by paper cutting method.

SCIENCE:

| ASSESSMENT PARAMETER | Multiple Assessment Strategy (MAS) – 5 marks Project Based Assessment (PBA) – 5 marks |
|-----------------------------|--|
| TOPIC-PROJECT / ACTIVITY | SCRAPBOOK: Project Title: “Everyday Reactions – Chemistry Around Us” Instructions: <ul style="list-style-type: none">Observe and record 5 chemical reactions happening at home (e.g., rusting of iron, curdling of milk, digestion of food, cooking of an egg, reaction between vinegar and baking soda).For each reaction, include:<ul style="list-style-type: none">The substances involved (reactants)The new substances formed (products)Signs of a chemical reaction (change in color, temperature, gas release, etc.)A simple word equation (if applicable) <p>Present it in a scrapbook with pictures or drawings.</p> |

| | |
|---|---|
| <p>COMPETENCY BASED/CASE BASED</p> | <p>A) There are many chemical reactions taking place around us which are accompanied by different types of changes. These reactions are classified into various categories on the basis of different criteria.</p>  <p>Answer the following questions</p> <p>(i) Give an example where a chemical change is accompanied by a change in colour.</p> <p>(ii) Calcium oxide is made to react with water, this type of reaction is _____, which is accompanied by _____ of heat.</p> <p>(iii) During formation of MgCl_2 from Mg, the metal is getting oxidised explain?</p> <p>B) Balance the following equations:</p> <p>i) $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaSO}_4 + \text{NaCl}$</p> <p>ii) $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$</p> <p>iii) $\text{Mg} + \text{O}_2 \rightarrow \text{MgO}$</p> <p>iv) $\text{Cu} + \text{FeSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$</p> <p>v) $\text{AgCl} \rightarrow \text{Ag} + \text{Cl}_2$</p> <p>C) A compound which is prepared from Gypsum has the property of hardening when mixed with water.</p> <p>(i) Identify this compound.</p> <p>(ii) Write the chemical equation for its preparation.</p> <p>(iii) For what purpose will this compound be used in the hospitals?</p> <p>(iv) How many molecules of water of crystallization are present in gypsum?</p> <p>(v) What will happen if Gypsum is heated for a longer time?</p> |
| <p>RESOURCE FOR PROJECT</p> | <p>https://www.youtube.com/watch?v=I3IS-hWEsAc</p> |
| <p>LEARNING OUTCOME</p> | <p>Each learner will be able to</p> <ol style="list-style-type: none"> 1. Enhance his/ her ability to observe and document scientific phenomena. 2. Practice recording data and analyzing their findings. |
| <p>MODE OF SUBMISSION</p> | <p>Offline – The scrap book and the notebook are to be submitted to the subject teacher.</p> |
| <p>RUBRICS</p> | <p>Overall Presentation -3 Marks Research and Documentation -2 Marks Content Accuracy -2 Marks Use of Visuals/ Images -2 Marks Timely Submission -1 Mar</p> |

SUBJECT: SOCIAL SCIENCE**Enrichment Activity/Project:****Enrichment Activity/Project:**

| | | | | | | | | | |
|--|--|--|--|--|---|---|---|------|---|
| Learning outcomes | The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from an interdisciplinary perspective. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. | | | | | | | | |
| Task | Enrichment Activity/Project guidelines- 1. It is a mandatory for all. 2. Each student has to take any one project (allotted as per your roll nos. out of the listed projects topics. 3. Project can be prepared on MSWORD / POWERPOINT /or can be HANDWRITTEN . 4. Number of pages expected in the project: ➤ MS Word-10 pages ➤ Handwritten-10 pages ➤ PowerPoint – 15 slides 5. Order of presentation of project report: ➤ Cover page (Topic, Name, Class, Section and Roll No.) ➤ Index ➤ Acknowledgement ➤ Content. ➤ Conclusion ➤ Bibliography ➤ Glossary 6. Support your project with suitably labelled pictures, maps, graphs, interesting facts, interviews conducted, questionnaire etc. 7. Projects topics are: • Social Issues (Roll Number: 1 to 10) • Sustainable Development (Roll Number: 11 to 21) NOTE: Cite & give credit to the references used by you at every place including pictures and data. | | | | | | | | |
| Date and Mode of submission: | 26/06/2025 | | | | | | | | |
| Rubrics for Enrichment Activity/Project | <table><tr><td>Content accuracy, originality and collaborative skills</td><td>2</td></tr><tr><td>Competencies exhibited and Presentation</td><td>2</td></tr><tr><td>Viva</td><td>1</td></tr></table> | | | Content accuracy, originality and collaborative skills | 2 | Competencies exhibited and Presentation | 2 | Viva | 1 |
| Content accuracy, originality and collaborative skills | 2 | | | | | | | | |
| Competencies exhibited and Presentation | 2 | | | | | | | | |
| Viva | 1 | | | | | | | | |

SUBJECT: INFORMATION TECHNOLOGY

✓ Holiday Homework Tasks:

1. **🎨 Art Integrated Project (Hard Copy):**
 - Prepare an **Art Integrated Project** on **any topic related to IT** (e.g., Digital India, Cyber Safety, Evolution of Digital Documents, etc.)
 - Use **drawings, charts, infographics, and creative layout**
 - Submit in hard copy on A4 sheets or chart paper
2. **📖 Homework & Classwork Completion:**
 - Complete both **Homework and Classwork copies**
 - Include all **Questions and Answers** from the textbook/PDF (IT 402)
 - Cover all:
 - **MCQs**
 - **True/False**
 - **Fill in the Blanks**
 - **Short and Long Answer Questions**
3. **💻 Practical File Completion – LibreOffice Writer:**
 - Complete your practical file with the following **two experiments** done in the computer lab:
 - **ID Card Design**
 - **Report Card Creation**
 - Include screenshots, steps followed, and printouts if possible

📅 Submission Date: First working day after summer vacation

*** Enjoy your holidays and make the most of your time. Stay safe and stay curious!**