



Bal Bharati
PUBLIC SCHOOL
Sector-21, Noida, G.B. Nagar

4 QUALITY
EDUCATION



CLASS VII (2025-26)

SUMMER HOLIDAY HOMEWORK

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Matter in Motion: Exploring the Magical Makeover of Substances



ENGLISH

1) CREATIVE WRITING TASK



"The Magical Chemistry Café- Menu of Changes"

Activity: Imagine a fictional café where every food or beverage item undergoes a physical or chemical change before being served. Create a menu with at least 5 creatively named dishes or drinks, each with a descriptive explanation highlighting the change involved.

You must also illustrate or draw each item to show the transformation happening- for example, melting, fizzing, burning, freezing, etc.

Guidelines:

- Use innovative, imaginative names for the items (e.g., Fizz Volcano Soda- a chemical explosion of flavours!).
- Use descriptive adjectives, figurative language, and vivid verbs to make your menu items exciting and fun.
- Be neat and creative in both writing and drawing.
- Complete this activity in your **English Grammar notebook**.



2) BOOK VOYAGE: Read, React, Reimagine

Dear Students, Reading is a powerful habit that cultivates imagination, enhances vocabulary, sharpens critical thinking, and nurtures empathy-qualities at the heart of the National Education Policy (NEP) 2020. Let books be your companions this summer.

Objective: To read a classic or contemporary book and respond through a multi-dimensional project that showcases comprehension, imagination, and expression.

Step 1: Read any one book from the list below

- Swami and Friends – R.K. Narayan
- The Code of the Woosters (abridged) – P.G. Wodehouse
- Stories by Munshi Premchand (English translation)
- Pride and Prejudice (abridged) – Jane Austen
- The Secret Garden – Frances Hodgson Burnett



Step 2: Create a digital "Book Response Journal"

Use Adobe Express to showcase the following 5 creative responses:

1. Cover Art Redesign- Design a brand-new book cover. Include new title design, author name, artwork, and tagline.

2. Meet the Character!

Write a short character profile of your favourite character. Also include:

- A drawing or cut-out image.
- Strengths & flaws.
- A dialogue bubble with their most iconic line.
- One modern-day emoji they'd use (explain why).

3. A Scene that Changed Everything

- Select one important scene from the story and retell it in your own words (100–150 words).
- Describe the emotion or action happening.
- Include an illustration, a stick-figure drawing, or a GIF idea.

4. "What If..." Twist

Imagine one "What if..." scenario:

- What if Swami had to attend online school?
- What if Elizabeth Bennet met a robot?
- What if the story happened in 2050?

Write a short alternate version (100 words max)

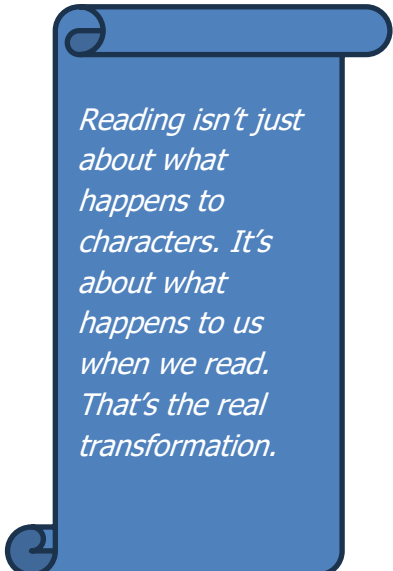
5. Author's Message in a Bottle

Write a short letter or message from the author to the reader.

OR

What lesson or message does the author want the readers to take away?

'Book Response Journal' to be submitted on Google Classroom.



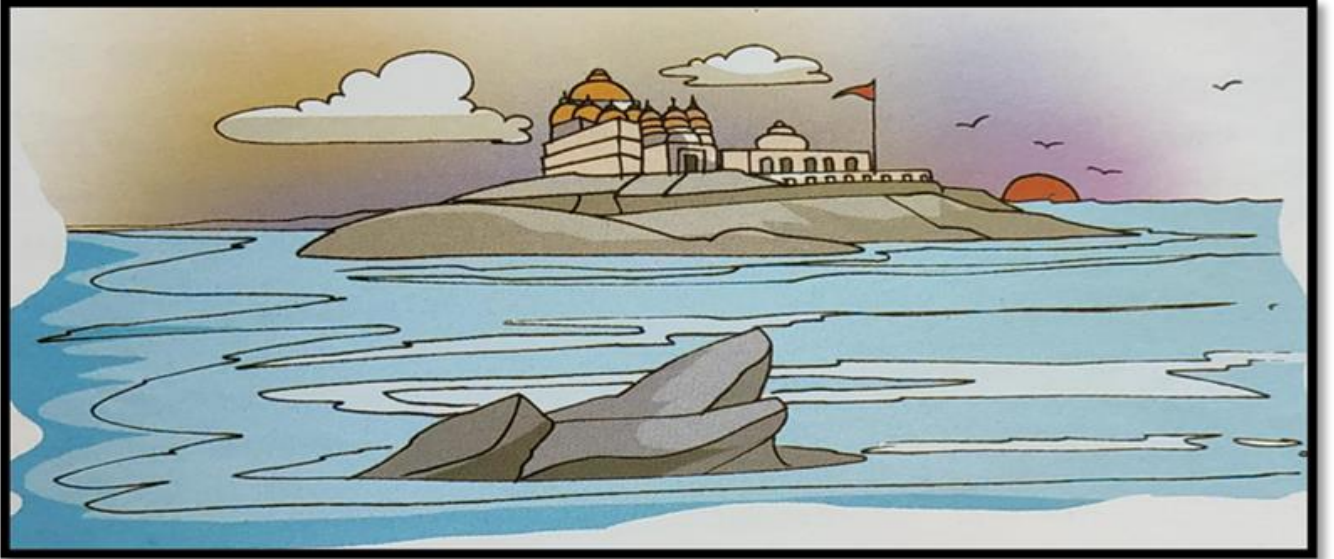
Reading isn't just about what happens to characters. It's about what happens to us when we read. That's the real transformation.

❁ SANSKRIT ❁

1. भारतीय समुद्रतटः' इस पाठ के आधार पर किसी एक भारतीय समुद्रतट का निर्माण ADOBE SPARK (<https://www.adobe.com/in/>) करते हुए उसका वर्णन संस्कृत में पाँच वाक्यों में करें।
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, लिख्, 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 व तकनीकी ज्ञान।
- चिंतन कौशल का विकास।





Topic: “Weathering Wonders: How Nature is Changing Our Monuments”

Research one Indian monument (like the Taj Mahal, Qutub Minar, Konark Sun Temple, or Ajanta Caves) and describe how Physical and chemical weathering are affecting it. Use Adobe express PPT template and showcase the following:

Instructions: Research and explain (in 5–6 lines):

1. What the monument is made of (marble, sandstone, etc.).
2. How is physical weathering (like temperature change, wind, or water) affecting it?
3. How chemical weathering (e.g., acid rain, pollution, moisture) is affecting it.
Any steps are being taken to protect it. (Conservation of Monuments by Archeological Survey of India)
4. Add a “Did You Know?” fact about the monument or the chemical changes it is facing.
5. Make your project colorful and informative. Use creative headings, borders, or icons

Note: Also complete the assignments uploaded to google classroom.

TOPIC: "Measure the Change!" – Math Meets Science at Home

Activity 1: Ice Melting Tracker (Physical Change)

- Place an ice cube in a bowl.
- Record the time taken to melt in minutes.
- Measure water collected (in mL).
- Math Task: Calculate melting rate (mL/min). Plot a line graph: time vs. volume of water collected.

Activity 2. Evaporation Station (Physical Change)

- Put equal amounts of water in 2 bowls: one in sun, one in shade.
- Measure and record remaining water over 3 days.
- Math Task: Calculate average daily evaporation (mL/day). Compare both bowls using a double bar graph.

Instructions:

- Record your observations, data, and calculations clearly.
- Present the work in a scrapbook made on Adobe Express
- Use graphs, tables, and formulas wherever required. Use pictures to support your data.
- Submit the link of your work on Google classroom

Logic and Beyond:

- Exe 1(Analogy), 2(Classification) & 3(Ranking) are to be solved in text book itself.
- Assignment Sheets which are uploaded in Google Classroom are to be practiced thoroughly.

Learning Objective: To help students observe real-life physical and chemical changes, collect data, perform math-based analysis, and present findings creatively.



TOPIC- Physical and Chemical Changes.

Objective-Create a digital PowerPoint presentation by differentiating between physical and chemical changes through visuals that enhance scientific knowledge, encourage research skills, and develop digital literacy using an Adobe platform.

STEPS-Task 1: Research and Presentation

Topic: Physical vs. Chemical Changes

- Instructions:1. Use online resources research. (like NCERT textbooks, YouTube EDU) Create a PowerPoint presentation (6–8 slides) comparing physical and chemical changes. Include:
 - Definitions
 - Key differences (use a table/chart)
 - Examples from everyday life (minimum 5 each)
 - Relevant images

Add at least one slide explaining a real-life chemical change you observed at home (e.g., rusting, cooking, burning).

Task 2: Science in Action – Photo tool

Instructions: FOR PPT

- 1.Observe and document 3 physical changes and 3 chemical changes at home.
- 2.Take photos or short videos (10–30 seconds) of each process.
- 3.Label them with a short description (e.g., "Melting ice – Physical Change"
- 4.Mark your file as -File name: YourName_Class7_PhysicalChemicalHW
- 5.Submit in the following format -PowerPoint (.pptx) in Google class -room folder.

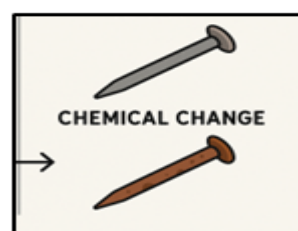
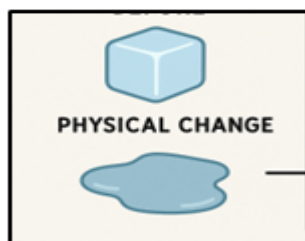


Topic: GIMP TOOLS and FEATURES

Instructions:

- Import an image of Ice cube. Using GIMP tools features and filters, change the shape of the ice cube to melted ice to show a Physical change.
- Import an image of a nail of grey colour. Using GIMP colour modes, change its colour it to show a rusted nail
- To save a GIMP file as a JPEG, use the "Export As" option rather than "Save As."
- Upload the images before working on GIMP and after working on GIMP in GOOGLE classroom

Learning Objectives: Learning to use GIMP tools, features and layers.



🌿 ARTIFICIAL INTELLIGENCE 🌿

Topic: Generative AI

Comic Strip – "The Shape-Shifting Journey of a Water Droplet"

Instructions:

- Using Canva, Pixton, Dall-e, Gemini or Adobe Firefly or any comic maker to create a **3–4 panel comic strip to generate images.**
- Title: *"The Shape-Shifting Journey of a Water Droplet"*
- Show how the water droplet changes from solid (ice) to liquid (water) to gas (steam).
- Add dialogues and narration to make it fun! (using ChatGPT or Gemini)
- Arrange them in PPT using Adobe Express or PowerPoint.

Submission: Convert the ppt to pdf and upload it to Google Classroom

Learning Objective: Students will be able to **Apply generative AI tools** (e.g., text-to-image, animation, comics) to visually represent scientific concepts.

🌿 HINDI 🌿

अपनी पसंदीदा भारतीय मिठाई को चुनें और उसकी बिक्री के लिए एक आकर्षक विज्ञापन को पंपलेट के रूप में दर्शाएँ। इस पंपलेट में मिठाई का नाम, उसके स्वाद, विशेषताएँ और कीमत के साथ-साथ उसमें बनने के दौरान होने वाले भौतिक और रासायनिक परिवर्तनों का भी रोचक वर्णन करें।

निर्देश:

यह कार्य पंपलेट के रूप में Adobe Express टूल की मदद से तैयार करें।

पंपलेट में मिठाई की तस्वीरों का उपयोग करें।

मिठाई को बेचने के लिए ऐसा विज्ञापन बनाएँ जो लोगों का ध्यान आकर्षित करे।

मिठाई बनाते समय उसमें होने वाले भौतिक और रासायनिक परिवर्तन को सरल भाषा में समझाएँ।

रचनात्मकता और प्रस्तुति शैली पर विशेष ध्यान दें।

NOTE

1. Holiday Homework should be submitted in google classroom as per the following schedule.

SUBJECT	DATE OF SUBMISSION
ENGLISH	24/6/2025
HINDI	25/6/2025
SANSKRIT	26/6/2025
MATHS	27/6/2025
SCIENCE	28/6/2025
SOCIAL SCIENCE	29/6/2025
IT/AI	30/6/2025

NOTE: Marks of HHW will be reflected in the Report Card under Project Based Assessment.

2. Round 1 examination is scheduled in July. To check the datasheet, refer to school Almanac. Ensure to revise all the work covered in each subject and complete the assignments shared on Google Classroom.