



D.A.V. NANDRAJ PUBLIC SCHOOL

BARIATU, RANCHI



HOLIDAY HOMEWORK

SESSION: 2026-27

CLASS: IX

ENGLISH

Holiday Enrichment Assignment (English) -2026-27

Task 1: Reading Log – A Journey Through Books

Read any ONE English storybook, novella or biography during the holidays. After reading complete the Reading Log with the following details - Title of the book, author's name, favourite character ,short summary (80-10 words), three new words learned, favourite quotation from the book, moral / message of the story.

Task 2: Imagine you experienced the topic you chose. Write diary entries of about 150-200 words each describing what happened and how you felt.

- Nature Spoke to me
- The Mystery of the Locked Room
- If I could travel Through Time

Task 3: Young Author's Project– Create your Own Storybook

Students are required to create an original handwritten storybook using their own imagination and ideas. Use A4 size sheets for writing and illustrations. Include a cover page with title and author's name. Bind all the pages neatly to make a book. (Maximum length – 14 pages including cover page).

Task 4: Voices Around Us

Interview any ONE person like grandparents or any elder from your family. Ask meaningful questions to understand their experiences, values and views about life.

- What was your school life different from students' life today?
- How were students disciplined earlier?
- What difficulties or challenges did people face in earlier days?
- How do children spend their free time before mobile phones and the internet ?
- What values and qualities were considered most important during your childhood?
- What changes in students do you notice today?
- What advice would you give to students of today's generation?
- According to you , what is the true meaning of success and happiness ?

(This activity can be presented beautifully as a video/ audio presentation or recitation-based interview.)

HINDI

कक्षा 9 हिंदी हॉलिडे होमवर्क

1. निबंध लेखन

निम्न में से किसी एक विषय पर 150 शब्दों में अनुच्छेद लिखो:

बेटी पढ़ाओ बेटी बचाओ

21 सदी का भारत

जल ही जीवन है

2. व्याकरण

उपसर्ग, प्रत्यय, और अर्थ के आधार पर वाक्य भेद के दस - दस उदाहरण लिखें।

3. पत्र लेखन (Letter Writing)

एक अनौपचारिक पत्र लिखें।

आपके क्षेत्र में बिजली बार- बार कट रही है और बच्चों की परीक्षा का समय है। मुहल्ले में चोरी भी बढ़ गई है। इसकी शिकायत करते हुए बिजली विभाग के निदेशक को पत्र लिखें।

4. रचनात्मक कार्य

किसी एक कहानी या कविता को सुंदर तरीके से लिखो

उसमें चित्र भी बनाओ।

SANSKRIT

1. शब्द रूप – अस्मद्, युष्मद्
तत्, इदम्, किम् (त्रिषु लिङ्गेषु) स्मरन्तु लिखन्तु च ।
2. धातु रूप – पठ, गम्, वद् (पञ्चेषु लकारेषु) स्मरन्तु लिखन्तु च।
3. परियोजना कार्यम् – पर्यावरणं प्रदूषणम् (चित्रेण सह) दश वाक्यानि रचयत ।
(संपूर्ण कार्यं संस्कृत कॉपी में करना है)

MATHEMATICS

- Q1) Find three rational numbers between $\frac{1}{7}$ and $\frac{2}{7}$.
- Q2) Express the following in the form of $\frac{p}{q}$, where q is not equal to zero, p and q both are integers.
(i) 0.34 (ii) 0.123 (iii) 2.015
- Q3) Rationalize the denominator of the following
(i) $\frac{2+\sqrt{3}}{2-\sqrt{3}}$ (ii) $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$
- Q4) Simplify: $\sqrt[4]{81} - 8\sqrt[3]{216} + \sqrt{225}$.
- Q5) Simplify: $\frac{7+3\sqrt{5}}{3+\sqrt{5}} + \frac{7-3\sqrt{5}}{3-\sqrt{5}}$
- Q6) If $x = 3 + 2\sqrt{2}$ find the value of
(i) $x + \frac{1}{x}$ (ii) $x - \frac{1}{x}$ (iii) $x^2 + \frac{1}{x^2}$ (iv) $x^2 - \frac{1}{x^2}$
- Q7) Factorise:
(i) $125x^3 + 27y^3 + 8z^3 - 90xyz$
(ii) $2x^2 - 7x - 15$
(iii) $3x^2 + 4y^2 + 25z^2 - 4\sqrt{3}xy - 20yz - 10\sqrt{3}xz$
(iv) $(x - 2y)^3 + (2y - 3z)^3 + (3z - x)^3$
(v) If $a + b + c = 0$, Prove that $\frac{a^2}{bc} + \frac{b^2}{ac} + \frac{c^2}{ab} = 3$
(vi) $x^3 + x^2 - 4x - 4$
(vii) $x^3 + 13x^2 + 32x + 20$
(viii) $2x^3 - 3x^2 - 17x + 30$
(ix) $2x^2 + 7x - 4$
(x) $\frac{8}{27}x^3 + \frac{4}{3}x^2 + 2x + 1$
- Q8) If $\frac{a}{b} + \frac{b}{c} = -1$, then find the value of $a^3 - b^3$.
- Q9) If $a + b + c = 0$, $ab + bc + ca = 23$ find the value of $a^3 + b^3 + c^3 - 3abc$.
- Q10) If $x + 2$ is a factor of $x^2 + kx + 14$, find the value of k.
- Q11) Find remainder when $x^{51} + 51$ is divided by $(x+1)$.
- Q12) Activity: Construct a square root spiral on A4 size paper.

SCIENCE

PHYSICS:

I. Numericals

Q1. Joseph jogs from one end A to the other end B of a straight 300m road in 2 minutes 30 seconds and then turns around and jogs 100 m back to point C in another 1 minute. What are Joseph's average speeds and velocities in jogging (a) from A to B and (b) from A to C?

Q2. Abdul, while driving to school, computes the average speed for his trip to be 20 km/hr. On his return trip along the same route, there is less traffic and the average speed is 30km/hr. What is the average speed for Abdul's trip?

II. On graph paper, draw the following and explain the slope.

- Velocity --time graph for uniform motion.
- Velocity – time graph for a car moving with uniform acceleration.
- Velocity – time graph of an object in non – uniformly accelerated motion.

III. Case Study

Calculate the average speed of your car during a visit to a nearby spot. Document the total distance covered and total time taken.

IV. Observe your surroundings and list 5 examples of motion, identifying them as uniform or non-uniform (e. g., car accelerating at green light, ceiling fan speed)

CHEMISTRY:

1. The “States of Matter” Photo Journal

- Task: Capture or draw five examples of matter changing states in your kitchen (e.g., steam from a kettle, ice melting, sublimation of mothballs/camphor).
- Requirement: For each photo/drawing, label the process (Fusion, Vaporization, Sublimation, etc.) and mention whether heat is being absorbed or released.

2. Comparative Study Table

Create a colorful chart on an A4 sheet comparing the properties of Solids, Liquids, and Gases based on:

- Inter-molecular space
- Force of attraction
 - Fluidity
- Compressibility
- Shape and Volume

3. Concept Mapping

Create a detailed concept map of the chapter. It must include:

- Physical nature of matter.
- Characteristics of particles.
- Factors affecting evaporation.
- The difference between boiling and evaporation.

4. The “States of Matter” Photo Journal

- Task: Capture or draw five examples of matter changing states in your kitchen (e.g., steam from a kettle, ice melting, sublimation of mothballs/camphor).
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5. Comparative Study Table

Create a colorful chart on an A4 sheet comparing the properties of Solids, Liquids, and Gases based on:

- Inter-molecular space
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6. Concept Mapping

Create a detailed concept map of the chapter. It must include:

- Physical nature of matter.
- Characteristics of particles.
- Factors affecting evaporation.
- The difference between boiling and evaporation.

7. Temperature Conversion Challenge

Convert the following temperatures to the Kelvin scale and vice versa (Show the steps):

25°C 373°C 300K 573K

8. Making a Cooling Pot by pasting photographs

Task: Investigate why water remains cool in an earthen pot (matka).

Research: Write a short paragraph (100 words) explaining the role of “Latent Heat of Vaporization” in this process. How does this relate to why we sweat during summers?

BIOLOGY:

1. Prepare a project on the topic -

"Earth works as a system" including all these points

- a) Interaction between the Earth's spheres.
- b) flow of energy on earth
- c) biogeochemical cycles
- d) role of living organisms

Project will be prepared on A4 size Sheet .

(One/ two pages for each topic).

SOCIAL SCIENCE

POLITICAL SCIENCE

Chapter-1

What is Democracy? Why Democracy?

CASE- BASED QUESTIONS

Case:1 Mexico's PRI: Until 2000 ,every election in Mexico was won by the PRI. Opposition parties contested but never won.Media was largely controlled.

Question: Was this a democratic setup? Justify your answer based on features of Democracy

Case: 2 China's Elections: In China, elections are held regularly for the National People's Congress ,but candidates need approval from the Chinese Communist Party.

Question: Can this election be called a democratic tool for choice? Why or why not.

1“ Democracy is not just a form of government ;it is a way of life that enhances human dignity.’

Support with examples

2.Explain the significance of the “Rule of Law” in a democracy ,using the examples of Zimbabwe under Robert Mugabe.

3.What are the merits and demerits of Democracy?

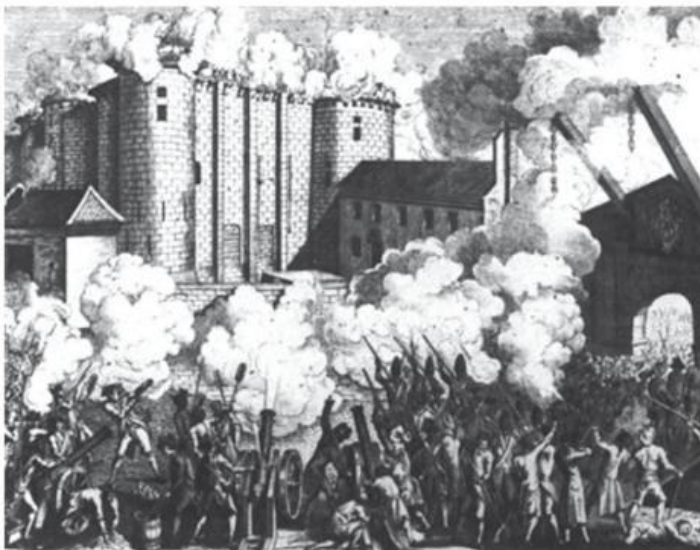
HISTORY

General Instruction- Complete the holiday homework in the class work copy of each subject.

CHAPTER-1

THE FRENCH REVOLUTION

1.Study the given image carefully and answer the question that follow.



- a) Name the historical event depicted in this image and provide the exact date it took place.
- b) Why was the Bastille hated by the people of France? What did the fortress-prison symbolize?
- c) What happened to the governor of the Bastille and the prisoners held inside during this event?
- d) Why is the fall of the Bastille considered the beginning of the French Revolution?

2. Assertion and Reason Type Questions

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true But R is not the correct explanation of A
- c) A is true, but R is false
- d) A is false but R is True

i) Assertion (A): The Third Estate was the most privileged in French society.

Reason (R): The Third Estate included nobles and clergy.

ii) Assertion (A): Louis XVI could impose taxes solely on his own authority.

Reason (R): The Estates –General met only when called by the monarch to approve new taxes.

2. NCERT textbook

3. Colored markers/pencils

4. Other reference sources

Tips

1. Use different colors for each mountain
2. Create a legend with symbols for each mountain.
3. Ensure accurate labeling and placement.

GEOGRAPHY

TOPIC : PHYSICAL FEATURES OF INDIA

Locate and Label the HIGHEST PEAKS of the HIMALAYAS on a chart paper given below..

1. Mt. Everest
2. Karakoram Range
3. Naga parbat
4. Kailash Range
5. Zaskar Range
6. Nanda Devi
7. Kanchenjunga
8. Naga Hills
9. Ladakh Range
10. Makalu mountain

Materials Needed

1. Chart paper

ECONOMICS

Answer the following: -

1. Why is the distribution of land unequal in Palampur? (Discuss the 450 families and how 150 of them are landless).
2. How has electricity changed the life of farmers in Palampur? (Focus on irrigation and small businesses).
3. What is Multiple Cropping? Why is it the most common way of increasing production on a fixed piece of land?

Research Project (Green Revolution)

Write a short report (200 words) or create a "Then vs. Now" poster on the **Green Revolution**. Focus on:

- **The Shift:** How farmers moved from traditional seeds to **HYV (High Yielding Variety)** seeds.
- **Requirements:** Mention the need for chemical fertilizers, pesticides, and plenty of water (irrigation).
- **The Impact:** Increased food grain production (especially wheat and rice) but also environmental concerns like soil degradation and depletion of groundwater.

INFORMATION TECHNOLOGY

1. Define Web page and Website.
2. What is Web browser? Write some examples.
3. What is web Address?
4. Define DNS & TLD.
5. What is WWW?
6. What is Social Networking? Write some examples of social media.
7. Explain IPO Cycle.
8. What is Hardware?
9. What is Input Device? Write some examples.
10. What is Output device? Write some examples.
11. Define CPU and its elements of functions.
12. What is memory and its types?
13. Write any five example of secondary memory. Explain
14. Differentiate between RAM and ROM.
15. Define Cache memory.
16. Write Memory Units of storage.
17. What is Magnetic disk?
18. Explain Hard disk and SSD.
19. What is Optical disk and its type.
20. What is Motherboard.
21. What is SMPS?
22. What is Microprocessor?

Note : Complete all work in a IT notebook.