



# D.A.V. NANDRAJ PUBLIC SCHOOL

BARIATU, RANCHI



## HOLIDAY HOMEWORK

SESSION: 2025 – 26

CLASS: IX

### ENGLISH

Q. 1. Design an E-blog on any two Best Adventures / Experiences you had this Summer Vacation.

Instructions:

- ❖ Use Microsoft Word Document to design your E-blog.
- ❖ Your E-blog should contain a Title.
- ❖ The title should be Eye- catchy.
- ❖ Attach any two relevant photos as given in the sample.
- ❖ Follow a proper format (Title, Introduction, Body, Conclusion).
- ❖ Each narration should be in about 100 words.
- ❖ Title font should be in Calibri, Font-14.
- ❖ Write up should be in Calibri, Font-12.
- ❖ Design a cover page as well.
- ❖ Use A-4 size sheets to take a print out of your E-blog in 3 pages along with the cover page.

OR

Poetry on Canvas 1.

1. How to do: Depict any one of the following poems from NCERT Book- Beehive in a creative manner as an artistic representation on A3 Canvas sheet. You can draw, paint, create collage, draw graphics, or create a storyboard.
  1. The Road Not Taken
  2. Wind

### HINDI

निर्देश : प्रायोगिक कॉपी में

1. मुख्य पेज पर स्कूल का नाम , गृह - कार्य , सत्र, छात्र का नाम, वर्ग, क्रमांक - स्कूल, इत्यादि साफ - सुथरे अक्षरों में लिखें
2. अपने दादा जी या दादी से एक कहानी सुनें।
3. उस कहानी को संवाद शैली में लिखें।
4. कहानी की शिक्षा को समझाते हुए अपनी बहन को एक पत्र लिखें।
5. आप अपना एक पोर्टफोलियो ( स्व वृत्त) तैयार करें।

अथवा

डी ए वी स्कूल में एक पी ई टी की आवश्यकता है और आप योग्य उम्मीदवार हैं। ऐसा स्व वृत्त तैयार करें।

6. इस स्ववृत्त को ई मेल से प्राचार्य को भेजें।

डीजाइन पेपर भी प्रयोग में ला सकते हैं।

## SANSKRIT

1. शब्द रूप – अस्मद्, युष्मद्, 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 ।

निर्देश : संपूर्ण कार्य संस्कृत व्याकरण कॉपी में करना है

## MATHEMATICS

Q1. Find four rational numbers between

(i)  $\frac{3}{4}$  and  $\frac{4}{5}$

(ii) 3 and 4

Q2. Represent the following in the form of p/q. (q is not equal to zero, p and q are integers)

(i) 0.49 (bar over 9) (ii) 0.173 (bar over 73)

Q3. Rationalize the denominator of the following

(i)  $\frac{1}{\sqrt{7}}$  (ii)  $\frac{\sqrt{5}}{2\sqrt{3}}$  (iii)  $\frac{1}{\sqrt{5}-2}$

Q4. Find the value of 'a' and 'b' in the following

(i)  $\frac{\sqrt{2}-1}{\sqrt{2}+1} = a + b\sqrt{2}$  (ii)  $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}} = a + b\sqrt{6}$

Q5. Factorise:

(i)  $X^2 + 20x - 69$  (ii)  $9^2 + 18x - 8$  (iii)  $x^2 - 22x + 120$  (iv)  $2x^2 + 11x - 21$

(v)  $2x^2 + 3x - 90$

(vi)  $2x^2 - 7x - 15$

(vii)  $6x^2 - 11x - 35$  (viii)  $9x^2 - 3x - 20$

(ix)  $5x^2 - 16x - 21$

(x)  $15x^2 - x - 28$

Q6. Represent the following on the number line

(i)  $\sqrt{2}$

(ii)  $\sqrt{3}$

(iii)  $\sqrt{5}$

(iv)  $\sqrt{6}$

Q7. Activity:

Draw square root spiral on A-4 size paper.

## SCIENCE

### **BIOLOGY:**

Do the following work in Biology Notebook.

1. Draw the diagram of following cell organelles and state their functions

a) nucleus

b) endoplasmic reticulum

c) mitochondria

d) Golgi apparatus.

2. Differentiate between
  - A. cell wall and plasma membrane?
  - B. RER & SER
  - C. Plant cell and Animal cell

### **PHYSICS:**

\_Complete the following work on A4-sized paper and submit it in a stick file.

1. Assignment work on Mathematical derivation of Newton's equations of motion.
2. Solve any five numerical problems based on different concepts of the chapter on Motion.

**PROJECT WORK:** Prepare a working model based on 'Uniform Circular Motion'.

### **CHEMISTRY:**

Complete all tasks neatly in Chemistry Notebook.

1. Make a chart showing the different states of matter and their properties. (atleast five)
2. Write down the factors on which rate of evaporation depends. Also mention how they are related with evaporation.

## **SOCIAL SCIENCE**

### **POLITICAL SCIENCE**

1. Paste the pictures of 10 Constitution makers and write about them.
2. What is Democracy? Write down its advantages and disadvantages.
3. Go through the chapter and frame five multiple choice questions

### **HISTORY**

1. Draw the Political symbol of French Revolution in your Notebook.
2. Locate and label the following places on the political map of France.
  - Paris
  - Nantes
  - Bordeaux
  - Marseilles
  - Bastille

### **GEOGRAPHY**

TOPIC : PHYSICAL FEATURES OF INDIA

Locate and Label the following GEOGRAPHICAL FEATURES of India on a chart paper.

1. Himalaya Mountains
2. Northern Plains



3. Peninsula Plateau (Central Highlands and Deccan Plateau)
4. Indian Desert
5. Coastal Plains
6. Island Groups
7. Indian Ocean
8. Bay of Bengal
9. Arabian Sea
10. Eastern Ghats
11. Western Ghats

**Materials Needed**

1. Chart paper
2. NCERT textbook
3. Colored markers/pencils
4. Other reference sources

**Tips**

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

**ECONOMICS**


Prepare a Report (5 - 6 pages) on the following topics:

- Introduction to Village Palampur
- Main production activities in the village
- Farming in Palampur - land distribution, capital, and labor
- Non-farming activities
- Challenges faced by farmers

Use diagrams, charts, or maps wherever possible.

## **INFORMATION TECHNOLOGY**

3. Write about ICT. (40-50 Words)
4. Explain about the role of ICT in daily life.
5. Explain How ICT is useful in Education, HealthCare and Governance.
6. Write any five advantages of using ICT tools in Education.
7. What is the difference between Smartphone and Tablets?
8. What is Internet?
9. Write some uses of Internet.
10. What is E-mail? Write its advantages.

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11. Define Web page and Website.
  12. What is Web browser? Write some examples.
  13. What is web Address?
  14. Define DNS & TLD.
  15. What is WWW?
  16. What is Social Networking? Write some examples of social media.
  17. Explain IPO Cycle.
  18. What is Hardware?
  19. What is Input Device? Write some examples.
  20. What is Output device? Write some examples.
  21. Define CPU and its elements of functions.
  22. What is memory and its types?
  23. Write any five example of secondary memory. Explain
  24. Differentiate between RAM and ROM.
  25. Define Cache memory.
  26. Write Memory Units of storage.
  27. What is Magnetic disk?
  28. Explain Hard disk and SSD.
  29. What is Optical disk and its type.
  30. What is Motherboard.
  31. What is SMPS?
  32. What is Microprocessor?

**Note: Complete Holiday homework in your notebook.**