

D.A.V PUBLIC SCHOOL

Affiliated to CBSE (10+2) New Delhi

Sec-3, Dhurwa, Ranchi 4

SUMMER VACATION HOLIDAY HOMEWORK

SESSION:- 2025-2026

Class IX

English

1. The students are directed to read newspapers and magazines daily and update themselves with the current affairs.

2. Maintain a personal diary and write two new words everyday along with current affairs.

3. All the students are required to revise the PT-1 Syllabus of all the subjects thoroughly.

4. The students may pay a visit to some of the educational centers like National Science Centre, Art Museum, Nehru Planetarium and write the experiences in their personal diary. Plan a visit with your family to the newly inaugurated Waste to Wonder Park in Ranchi. Make a travelogue of the same in a scrap file. Paste pictures and give a detailed description of the park. Location-photographic description-key attractions-entry procedure-timings- some cultural background

Q2. Write a diary entry of your visit to the Waste to Wonder Park describing your experiences of the day.

Q3. Write an informal letter to your friend, Rahul living in Dehradun narrating the details of your escapade to the Waste to Wonder Park, persuading him to come to Delhi and visit the same.

Q4. Read the book 'Five Tales of Shakespeare' and write a brief book review of any one of the tales

Q1. Select three poems from the syllabus and highlight the presence of listed literary devices.

Explain the literary devices and cite suitable examples from selected poems in a thin notebook. Given below is a list of literary devices that you can look for in your poem.

Simile

Metaphor

Personification

Alliteration

Repetition

Oxymoron

Refrain

Hyperbole

Allusion

Apostrophe

Irony

Paradox

Onomatopoeia

Activity Plan a get together party to be held at your place.

- Make a list of things you will require using determiners.

Ex. I called up all my friends for the party.

Some of them didn't come.

My mother bought few packets of chips for us.

Click photographs and paste them. Now, write a diary entry in not more than 120 words

describing the fun you had at the party.

At the end of the party, when you were helping your mother clean up the house, you found a watch lying unclaimed in the living room. Draft a notice for the School Notice Board inviting the claimants for the same that you would put up in the school as soon as it reopens.

.All the students are required to revise the PT-1 Syllabus of all the subjects thoroughly

Project:

Summer break is for the students to relax and rejuvenate themselves. It is hoped that you find the following assignment an interesting learning exercise. Design the first page of your assignment as your portfolio which should have the following details:

Name, class & section

Passport sized latest photograph

Self-introduction in 50 words

Write an autobiography about two writer and two poet

One Autobiography must be 7 pages.

Sanskrit

प्रश्न - 1 स्वर्ण काकः पाठ का हिंदी में अर्थ लिखो।

प्रश्न - 2 भारतीय वसंत गीति पाठ का श्लोक अनुभव और हिंदी में अर्थ लिखकर चित्र बनाएं या चिपकाए।

प्रश्न - 3 गोदोहनम् पाठ का हिंदी में सारांश लिखो।

प्रश्न - 4 मम् विद्यालय पर 15 वाक्य संस्कृत में लिखो।

प्रश्न - 5 पूर्ण वाक्येन उत्तरतम् लिखत।

क- सलिलं त्वं वीणामाकर्ण्य कथमुच्चलेत्।

ख- बालिका किं दृष्ट्वा आश्चर्यचकिता जाता?

ग- निर्धनायाः दुहिता मञ्जूषायाम् कानि अपश्यत्?

घ- मल्लिकया किं दृष्ट्वा धेनोः ताडनस्य वास्तविकम् कारणम् ज्ञातम्?

ङ- मासः पर्यन्तम् धेनोः अदोहनस्य किं कारणं आसीत्?

प्रश्न -6 प्रकृति प्रत्यय संयोगम् कुरुत।

विलोक्य, आगत्य, शयित्वा, लघुत्वम्, करणीयम्, पठितम्, दोग्धुम्, विक्रीय, दृष्ट्वा

प्रश्न -7 सन्धि विच्छेद कुरुत।

अद्यैव, राजर्षिः, गुरुपदेशः, मध्वस्ति, नयनम्, गायकः, सोऽहम्

प्रश्न - 8 वर्णों का उच्चारण स्थान संस्कृत में लिखो।

प्रश्न - 9 भू धातु पांचो लकारों में रूप लिखो।

प्रश्न -10 प्रधानाचार्यम् प्रति शूलकम् क्षमापनार्थम् प्रार्थनापत्रे मञ्जूषायाम् प्रदत्तं पदानां सहायतां पूरयति।

प्रश्न- 11 भारतीय लोक नृत्य क्या है उसके पहनावे के बारे में विस्तार पूर्वक लिखें और चित्र बनाएं या चिपकाए।

प्रश्न - 12 घड़ी बनाएं और संस्कृत में समय लिखें।

12:00, 4:15 6:45 9:30 8:15

Hindi

प्रश्न(1) "बच्चे काम पर जा रहे हैं" पर आधारित सुंदर- सा परियोजना कार्य तैयार करो ।(स्टिक फाइल में बनाना है)

(प्रमाण पत्र ,आभार ,क्रम सूची ,भूमिका ,कवि परिचय ,रचनाएं ,पुरस्कार ,भाषा शैली, साहित्यिक विशेषताएं ,कविता ,कविता का भावार्थ ,शब्दार्थ, प्रश्न उत्तर ,बालश्रम की परिभाषा,बालश्रम के प्रकार, बाल श्रम संबंधी कविता, बालश्रम संबंधी कानून , बाल श्रम संबंधी अन्य राज्यों से तुलनात्मक अध्ययन, आप बालश्रम को कैसे रोकोगे? ग्रंथ सूची ,धन्यवाद ,)---चित्र के साथ होना चाहिए

प्रश्न (2) क्षितिज -पाठ दो बेलों की कथा और साखियां और सबद- प्रश्न उत्तर लिखो और याद करो

व्याकरण से..

प्रश्न (3)अलंकार किसे कहते हैं ?अलंकार के कितने भेद हैं ?परिभाषा और उदाहरण 10- 10 लिखो और याद करो।

प्रश्न (4) अपने पाठ्य पुस्तक से पांच सूचना लेखन लिखो और याद करो।

प्रश्न (5) दिए गए विषय पर अनुच्छेद लिखो ..

1)मन के हारे हार है मन के जीते जीत

2) वन रहेंगे हम रहेंगे

प्रश्न (6)फीस माफी हेतु प्रधानाचार्य को प्रार्थना पत्र लिखो ।

प्रश्न(5) अपने पाठ्य पुस्तक से पांच संवाद लिखो(जो तुम्हें पसंद हो)

SST [GEO]

Model -

1. Prepare a model of physical features of India.

Project Work - (Art integrated based)

- **Make a project on the topic of physical features of India.**

Copy work -

1. What is the longitudinal extent of India? Write its importance?
2. What do you understand about Indian standard Time? Mention its importance.
3. India has a long coastline which is an advantage for India. Analyse.
4. What do you know about India and her neighbours?
5. Give a brief description of the Himalayan mountains.
6. Write some important features of Ganga plains.
7. Differentiate between bhabar and terai region.
8. Write the importance of the peninsular plateau.
9. Mention the significance of the Northern plains of India.
10. How do the physical division of India complement each other?
11. Describe the distinct features of the peninsular plateau of India.
12. Locate and label the following on the map of India-
 - a. Plateau- Deccan plateau , Chota Nagpur Plateau , Malwa plateau
 - b. Mountain peaks - kanchenjunga, Anai Mudi
 - c. Mountain ranges- The karakoram, the Shivalik, the Aravali, the Western and eastern ghats
 - d. Coastal plains- Konkan, Malabar coast

ECONOMICS

Model -

1. **Prepare a model of modern farming methods .**

Project Work - (Art integrated based)

- **Make a project on the topic of Human capital formation .**

Copy work -

Answer these questions:-

1. What are the different ways of increasing production on the same piece of land? Use examples to Explain.
2. Modern farming methods require more inputs, which are manufactured in industry. Do you agree?
3. What can be done so that more non-farm production activities can be started in villages?

4. How did the spread of electricity help farmers in Palampur?
5. Why are the wages for farm labourers in Palampur less than minimum wages?
6. Explain Green Revolution, when it was implemented in Indian Economy?
7. Distinguished between multiple cropping and modern farming methods?
8. What do you mean by human capital formation or people as resource?

PHYSICS

1. Differentiate between: a. Distance and Displacement b. Velocity and acceleration
2. A car is travelling at 20 km/h, it speeds upto 60 km/h in 6 seconds. What is its acceleration?
3. A car accelerates from 6 ms^{-1} to 16 ms^{-1} in 10 sec. Calculate
 - (a) the acceleration and
 - (b) the distance covered by the car in that time.
4. A circular track has a circumference of 3140 m with AB as one of its diameter. A scooterist moves from A to B along the circular path with a uniform speed of 10 m/s. Find
 - (a) distance covered by the scooterist,
 - (b) displacement of the scooterist, and
 - (c) time taken by the scooterist in reaching from A to B.
5. Answer all the questions of Chapter- Motion from both NCERT and Foundation Science.

CHEMISTRY

CHAPTER :- ATOMS AND MOLECULES

Answer the following question.

1. Name the scientist who gave two important laws of chemical combination.
2. What is law of conservation of mass? Describe with an activity.
3. State the law of constant proportion. Give example.
4. Write the postulates of Dalton's atomic theory.
5. What is the difference between 2N and N₂?
6. What is the difference between an atom and molecule?
7. Write symbols of: (a) copper (b) mercury (c) iron (d) silver (e) gold (f) argon (g) zinc (h) cobalt (i) lead (j) potassium (k) silicon
8. What is meant by valency of an element?
9. Give two examples each of:
(a) Mono atomic molecule (b) tri atomic molecule (c) Di atomic molecule (d) poly atomic molecule
10. Write the chemical formula of: (a) Sodium oxide (b) calcium chloride (c) aluminium oxide (d) magnesium hydroxide (e) sodium carbonate
11. Find the molecular mass of:
(a) H₂S (b) HCl (c) NH₃ (d) Cl₂ (e) CH₃COOH (f) CH₃CHO
12. Find the formula unit mass of: (a) NaCl (b) FeO (c) NaHCO₃ (d) CuSO₄

PROJECT

Perform the following reactions and classify them as physical or chemical changes:

- a) Iron with copper sulphate solution in water
- b) Burning of magnesium ribbon in air
- c) Zinc with dilute sulphuric acid
- d) Heating of copper sulphate crystals

BIOLOGY

Q. I. Answer the following questions:

- Q1. Why the cell is called the structural and Junctional unit of life?
- Q2. Explain the functions and structure of Golgi bodies.
- Q3. What is nucleoid?
- Q4. What is the difference between plant cells and animal cells?
- Q6. What are suicidal bags ?
- Q7. What is the function of chromosomes?
- Q8. Name the smallest cell in human body?
- Q9. Which is the largest cell in human body?
- Q10. Why Plant cells are are more rigid than animal cells?
- Q11. Explain the process of osmosis in detail.
- Q12. Who discovered cells, and how?
- Q13. How do substances like CO₂ and water move in and out of the cell? Discuss.
- Q14. Why is the plasma membrane called a selectively permeable membrane?
- Q15. If the organisation of a cell is destroyed due to some physical or chemical influence, what will happen?
- Q16. Why are lysosomes known as suicide hags?

Q17. Make a comparison and write down ways in which plant cells are also different from animal cells.

Q18. What would happen if the plasma membrane ruptures or breaks down

Q19. What would happen to the life of a cell if there was no Golgi apparatus?

Q20. Draw and label diagrams of plant cell and animal cell.

Q. I I. Project work

Make a project on natural resources

Prepare a brief write up on the topic -Natural resources

Types of natural resources - air, water and soil.

Biogeochemical cycle - oxygen, water, nitrogen, carbon dioxide cycle.

Global warming and ozone layer depletion.

COMPUTER

Answer the following questions.

1. Explain two types of main memory.
2. What is the function of control unit?
3. Which two functions are performed by ALU ?
4. Which memory is used to store data permanently ?
5. Describe functional unit of CPU.
6. Distinguish between system software and application software.
7. What is the difference between machine language and assembly language.
8. What do you meant by an application package ? What are the categories of application package.
9. What is the difference between Software and Hardware ?
10. How will you create a folder? Write the steps.

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Class-IX

Sub:-HISTORY

HOLIDAY HOMEWORK

1. Describe the events of 14th July, 1789.
2. Which three causes led to the subsistence crisis in France during the old Regime ?
3. What was the contribution of Mirabeau and sieyes to the formation of the National Assembly ?
4. How did peasants protest against the feudal lords or nobles of France ?
5. How did France become a constitutional monarchy ?
6. Explain any three features of the constition of france, drafted in 1791.
7. Who were the Jacobins ? Write about them in three points,
8. What do you understand by the term Reign of terror ?
9. How would you explain the rise of Napoleon Bonaparte.
10. Describe the legacy of the French Revolution for the people of world during the 19th and 20th centuries.
11. Describe the divisions in French society before the French Revolution.

PROJECT WORK

1. Art-integrated project work on the French revolution.

CIVICS

1. What would have happened if India was not a democracy ? Could we have stayed together as a single nation ?
2. Mention three essential features of democracy.
3. Why are china Estonia and Saudi Arabia not truly democratic countries state one reason for each one of them.
4. Which three rights should every citizen of a democratic country get ?
5. How does democracy improve the quality of decision-making ?
6. Explain the meaning of representative democracy. How is it significant in the contemporary world ?
7. What do you mean by the policy of Apartheid ? How did this policy come to an end ?
8. How did the blacks of South Africa fight against the practice of apartheid ?
9. What was the procedure adopted for making the Indian Constitution ?
10. Mention any three characteristics of the India constitution.
11. What is the significance of the preamble to the Indian Constitution ?

PROJECT WORK

1. Art-integrated project work on what is Democracy? Why Democracy ?

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Class-IX

Sub:-MATHEMATICS

1. Write four rational numbers equivalent to $\frac{4}{7}$.
2. (i) $\frac{8}{5}$ and (ii) $\frac{-11}{7}$ on the number line.
3. Find six rational numbers between 3 and 4.
4. Express $1.\overline{4}$ as a fraction in simplest form.
5. Express $2.\overline{36} + 0.\overline{23}$ as a fraction in simplest form.
6. Simplify (i) $\sqrt{72} + \sqrt{800} - \sqrt{18}$
7. Locate $\sqrt{3}$ on the number line.
8. Find rational numbers A and B such that.
(i) $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$.
9. If $x = 2 - \sqrt{3}$, Find the value of $\left(x - \frac{1}{x}\right)^3$
10. If $a = 3 - 2\sqrt{2}$, Find the value of $\left(A^2 - \frac{1}{A^2}\right)$
11. If $P = \frac{3-\sqrt{5}}{3+\sqrt{5}}$ and $Q = \frac{3+\sqrt{5}}{3-\sqrt{5}}$ find the value of $P^2 + Q^2$
12. If $x = \frac{1}{2-\sqrt{3}}$. Find the value of $x^3 - 2x^2 - 7x + 5$.
13. Prove that $\frac{2^{x-1} + 2^x}{2^{x-1} - 2^x} = \frac{3}{2}$

14. Prove that $\frac{2^{30} + 2^{29} + 2^{28}}{2^{31} + 2^{30} - 2^{29}} = \frac{7}{10}$
15. If $5^{x-2} \times 3^{2x-3} = 135$. Find the value of x .
16. Simplify the product $\sqrt[3]{2} \cdot \sqrt[4]{2} \cdot \sqrt[12]{32}$
17. Find the value of x . In each of the following.
- (i) $\frac{3^{3x} \cdot 3^{2x}}{3^x} = \sqrt[4]{3^{20}}$
18. If $\left(\frac{2}{3}\right)^x \left(\frac{3}{2}\right)^{2x} = \frac{81}{16}$ then $x = ?$
19. If $x = 2 + \sqrt{3}$ then $\left(x + \frac{1}{x}\right)$ equals.
20. Verify whether the following are zeroes of the polynomials. Indicated against then.
- (i) $P(x) = 3x + 1; x = -\frac{1}{3}$
21. If -3 is the zero of $P(x) = 3x^2 + kx + 6$ Find the value of k .
22. Determine which of the following polynomial has $(x + 1)$ a factor.
- (i) $2x^4 + x^3 - 14x^2 - 19x - 6$
23. Factorise (i) $2x^2 + x - 15$
- (ii) $x^3 - 2x^2 - x + 2$
24. Evaluate the following using suitable identities.
- (i) $(102)^3$ (ii) $(998)^3$
25. Verify (i) $x^3 + y^3 = (x + y)(x^2 - xy + y^2)$.
26. Project on Indian Mathematicians.