

RASHTRIYA SARVAJANIK MELA PUBLIC SCHOOL, SUPAUL
SUMMER HOLIDAY HOMEWORK 2026

Class 9

हिन्दी

1. रैदास का जीवन परिचय देते हुए सिद्ध कीजिए कि कर्म ही पूजा है।
2. "दो बैलों की कथा" पाठ के आधार पर बताएँ कि यदि गया की जगह झूरी जैसे संवेदनशील मालिक होते, तो हीरा और मोती का जीवन कैसे अलग होता?
3. अलंकार का षाद्विक अर्थ बताते हुए काव्य में अलंकार की भूमिका पर प्रकाश डालें।
4. भवन निर्माण हेतु नक्शा पास करवाने के लिए कार्यपालक पदाधिकारी नगर परिषद् को एक आवेदन-पत्र लिखें।
5. दो बैलों की कथा पाठ के आधार पर दोनों बैलों का चित्र प्रस्तुत करते हुए उनमें व्याप्त मानवीय गुणों का वर्णन कीजिए।

Science

Biology.

1. Write the names of components of Cell and mention their role.
2. Draw a neat and labelled diagram of plant cell.
3. Name all Biological and their discoveries along with year.
4. Differentiate between :-
 - a) Plant cell and Animal cell
 - b) Prokaryotic and Eukaryotic cell
 - c) Cell Membrane and Cell - wall
5. Learn the following terms:-
 - a) Osmosis
 - b) Diffusion
 - c) Thermophilic
 - d) Endolysis

Physics

1. How will you find accelerations from velocity time graph ?
2. Derive $S = ut + \frac{1}{2} at^2$ graphically.
3. Explain uniform and non uniform acceleration with graph.
4. Draw a figure to show uniform circular motions in which direction of object changes continuously.
5. Solve 5 numerical problems based three equations of motion.

Chemistry

1. Explain various forms of matter on the basis of characteristics of particles of matter.

2. What do you mean by Solubility? Explain the effect of temperature on solubility of substances.
3. Common salt (Sodium Chloride) is a compound. Justify with a statement.
4. Distinguish between pure and impure substances giving examples from your surroundings.
5. We are able to get smell of hot food away from us, but it not so for cold food. Explain with reason.

संस्कृत

1. पाठ्यपुस्तक से प्रथमः पाठः , द्वितीय पाठः , तृतीय पाठः का प्रश्नोत्तर षुद्ध-षुद्ध और स्पष्ट अक्षरों में लिखें।
2. 'आगम्' धातु को लट्‌लकार और लोट्‌लकार पर जोड़कर धातुरूप बनाएँ और कार्डबोर्ड पर सजाकर लिखें।
3. भारतीय संविधान के प्रस्तावना को संस्कृत में लिखें और कार्डबोर्ड पर सजाकर प्रदर्शित करें।
4. सरस्वती प्रार्थना को चित्र सहित कार्डबोर्ड पर सजाकर प्रदर्शित करें।
5. अस्मद् और युष्मद् षब्दरूप को कार्डबोर्ड पर सजाकर लिखें।

English

1. Read any English book of your choice and write a review highlighting the author's tone, themes, plot summary and your favourite characters indications reasons.
2. Write 50 common Idioms and their meanings with two examples each.

Maths

Instruction:- Homework done on A-4 sheet paper with index.

Q.1. Express $2.36 + 0.23$ as a fraction in simplest form.

Q.2. Write each of the following in decimal form and say what kind of decimal expansion each has:-

(i) $\frac{261}{400}$ (ii) $\frac{231}{625}$ (iii) $2\frac{5}{12}$ (iv) $\frac{11}{24}$ (v) $\frac{3}{11}$ (vi) $\frac{7}{25}$

Q.3. On her birthday Reema distributed chocolates in an orphanage. The total number of chocolates she distributed is given by

$$(5 + \sqrt{11})(5 - \sqrt{11})$$

(i) Find the number of chocolates distributed by her.

(ii) Write the moral values depicted here by Reema.

Q.4. Represent $\sqrt{7.3}$ geometrically on the number line and verify also.

Q.5. Represent $(1 + \sqrt{9.5})$ on the number line.

Q.6. If $x = 2 - \sqrt{3}$, find the value of $(x^2 + \frac{1}{x})$ and $(x - \frac{1}{x})^3$

Q.7. Evaluate: $\frac{15}{\sqrt{10} + \sqrt{20} + \sqrt{40} - \sqrt{5} - \sqrt{80}}$, it being given that $\sqrt{5} = 2.236$ and $\sqrt{10} = 3.162$.

Q.8. Prove that $\sqrt{5}$ is an irrational number.

Q.9. Find the $q(x)$ and $r(x)$ if $p(x)=x^4+ 3x^3 -4x^2 -5x-4$ and $g(x)=2x+5$.

Q.10. Represent irrational number of constructing square root spiral. (Classroom Activity)

Computer

Skill based questions.

1. Describe the advantages and disadvantages of all types of communication.
2. Describe the factors behind BPO Industry success in India.

Application based questions.

1. Describe effective communication. Also discuss 7 C's of communication.
2. What do you understand by communication? Why it is important for our life.

Project based question

Describe the elements of communication cycle using data - flow on Chart paper.

Social Science

Skill-Based Questions

Focus: Mapping, Data Interpretation, and Chronology.

1. Map Analysis (Geography): On an outline map of India, locate and label the following features. Then, answer the analytical question below.

- * The "Karakoram Range" and the "Zaskar Range".
- * The "Eastern Ghats" and "Western Ghats"
- * "The Northern Plains: "Mark the area formed by the interplay of the Indus, Ganga, and

Brahmaputra.

Analysis: Why are the Western Ghats higher in elevation compared to the Eastern Ghats, and how does this affect the rainfall pattern in the Deccan Plateau?

2. Chronology & Source Analysis (History): Below are key events from:

The French Revolution: Place them on a vertical timeline and identify which event was the "turning point" that led to the end of the Monarchy.

- * Convocation of the Estates-General (May 1789).
- * The National Assembly completes the draft of the Constitution (1791).
- * The Declaration of the Rights of Man and Citizen.
- * The Abolition of Feudalism (August 4, 1789).

Application-Based Questions

Focus: Applying Democratic and Economic Principles to Real-Life.

1. Democratic Rights (Civics): Imagine a country where the government passes a law stating that "No citizen is allowed to criticize the Prime Minister on social media."

* Relate this scenario to the "Fundamental Rights" mentioned in the Indian Constitution. Which specific right is being violated?

* Explain why "Dissent" (disagreement) is considered a vital part of a healthy democracy using examples from the chapter *what is Democracy? Why Democracy?*

2. Resource Management (Economics): Recall the story of Village Palampur.

* If a small farmer in your local area wants to set up a small-scale manufacturing unit (like a flour mill), what are the four factors of production they would need?

* Distinguish between "Fixed Capital" and "Working Capital" in this specific context. Which one is more critical during the initial three months of the business, and why?

Project-Based Task

*Focus: Disaster Management & Sustainable Development.

Project Title: "The Resilience Blueprint"

Objective: To understand how human intervention affects the intensity of natural disasters.

Instructions:

Case Study: Choose one major natural disaster that occurred in India in the last 5 years (e.g., a specific flood, cyclone, or landslide).

The "Human Factor": Investigate how human activities (like deforestation, unplanned construction, or poor drainage systems) contributed to the severity of that disaster.

The Mitigation Plan: Design a "Safety Brochure" for your community. It must include:

Pre-Disaster: Three steps to prepare (e.g., emergency kits, mock drills).

During Disaster: Immediate "Do's and Don'ts."

Post-Disaster: How to prevent the spread of diseases.

Creative Element: Create a 3D model or a detailed sketch of an "Eco-Friendly House" designed to withstand that specific disaster (e.g., a stilt house for flood-prone areas or an earthquake-resistant structure).

Note: Submission Guidelines

* Use A4 size sheets for written answers.

* The map work must be neatly colored (Blue for water, Brown for mountains, Green for plains).

* The project report should not exceed 10 pages and must include a Bibliography/Sources page.

