

RASHTRIYA SARVAJANIK MELA PUBLIC SCHOOL, SUPAUL
SUMMER HOLIDAY HOMEWORK 2026

Class 10

हिन्दी

1. "सूर के पद" पाठ के प्रयुक्त अलंकारों को संकलित कर उनके भेदों के नाम लिखिए।
2. "नेताजी का चष्मा" पाठ के आधार पर पान वाले के व्यक्तित्व पर प्रकाश डालें।
3. विद्यालय के वार्षिकोत्सव पर लगने वाली प्रदर्शनी में स्वनिर्मित हस्तशिल्प का विज्ञापन तैयार कीजिए।
4. वायुमंडल के ओजोन परत का हास प्रकृति के लिए चिंता का विषय है, कैसे? उक्त विषय पर 120 शब्दों में निबंध लिखें।
5. "नेताजी का चष्मा" पाठ के आधार पर सरकंडे से बने चष्मा का चित्र बनाकर देशभक्ति की महत्ता पर प्रकाश डालें।

Science

Biology

1. What are the necessary conditions for Atrophic mode of Nutrition and what are its by products?
2. How are fats digested in our body? Where does this process takes place?
3. Write the steps of an activity which shows that Lime water gives milky appearance when react with CO_2 .
4. Draw a labelled diagram of Human Heart and show the flow of Blood circulation.

Or

Draw Alveoli of Lungs and write the role of Alveoli.

5. Learn the role of all enzymes which play an important role in digestion of food.

Physics.

1. 'AMBULANCE' is written on the van laterally inverted. Why?
2. Draw a ray diagram of a magnifying glass for the formation of image.
3. Show the cases of image formation by concave mirror on a chart paper.
4. Show the Cartesian sign conventions on a paper with ray diagrams.
5. Determine the focal length of a concave mirror. (Experimental set up)

Chemistry.

1. Substances undergo chemical reactions, why?
2. A chemical equation must be made informative. Give reasons.
3. Combination reactions are opposite to decomposition reactions. Justify the statement.
4. What happens when :-
 - (a) Hydrated ferrous sulphate is heated.
 - (b) Sulphuric acid is added to aqueous solution of barium chloride.
 - (c) Iron granules are added to aqueous solution of copper sulphate solution.
 - (d) Calcium oxide is treated with water. Give a balanced chemical equation for each.
5. When zinc is treated with hydrochloric acid, a gas is evolved. Identify the gas. Draw a neat and labelled diagram to show the experiment.

संस्कृत

1. 'गम्' धातु को पाँच लकारों में जोड़कर धातुरूप बनाएँ तथा कार्डबोर्ड पर सजाकर लिखें।
2. पाठ्यपुस्तक से प्रथमः पाठः , द्वितीय पाठः , तृतीय पाठः का प्रश्नोत्तर पुद्ध-पुद्ध और सुन्दर अक्षरों में लिखें।
3. व्यंजन संधि के सभी प्रकारों को उदाहरण सहित कार्डबोर्ड पर सजाकर लिखें।
4. सी. बी. एस. ई. बोर्ड परीक्षा को केन्द्र में रखते हुए दो मित्रों के बीच संवाद को संस्कृत में लिखें और कार्डबोर्ड पर प्रदर्शित करें।
5. पाठ्यपुस्तक से मंगलम् के प्लोकों को कार्डबोर्ड पर सजाकर लिखें।

English

1. Find out 30 literary devices and write their definitions with five examples each.
2. Research about 'Apartheid System in South Africa and write an article about it. (History of apartheid in brief - its impact on South African Society - Rise of Mandela - Collapse of Apartheid)

Maths

1. Prove that $\sqrt{5}$ is an irrational number.
2. Prove that the following are irrationals:
(i) $7\sqrt{5}$ (ii) $6 + \sqrt{2}$
3. There are 104 students in class X and 96 students in class IX in a school. In a house examination, the students are to be evenly seated in parallel rows such that no two adjacent rows are of the same class.
(a) Find the maximum number of parallel rows of each class for the seating arrangement.
(b) Also, find the number of students of class IX and also of class X in a row.
(c) What is the objective of the school administration behind such an arrangement?
4. Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively.
(i) 1,1 (ii) $-\frac{1}{4}, \frac{1}{4}$
5. Write all the other trigonometric ratios of $\angle A$ in terms of $\sec A$.
6. Prove that: $\frac{\cos A - \sin A + 1}{\cos A - \sin A + 1} = \operatorname{cosec} A + \cot A$, using the identity $\operatorname{cosec}^2 A = 1 + \cot^2 A$.
7. Prove that: $\left(\frac{1 + \tan A}{1 + \cot A}\right) = \left(\frac{1 - \tan A}{1 - \cot A}\right)^2 = \tan^2 A$
8. Express all the trigonometric ratios in terms of $\tan \theta$.
9. To prove that product of two numbers is equal of product of HCF and LCM with Examples.
10. To Prepare a project of 3D Model:-
Dream Home Design.
Concept :- Use cardboard to build a model house utilizing 3D shapes like cubes, cuboids, cylinders, cones, and spheres.
Activity: - Calculate the total surface Area and volume of the house.

Computer

Skill based questions.

1. Discuss about Images in a document. Discuss the several ways or drawing objects to a document.
2. Describe about Recording and Track changes in a document.

Application based.

1. Discuss about Embedding and Linking an image in Writer.
2. What do you understand by Table of contents (ToC)? How it is useful in Writer while working in a document.

Project based questions.

Describe about different Text wrapping features available in Writer using icons and examples on a chart paper.

Social Science

1. Compare the policies and methods used by Otto Von Bismarck and Sardar Vallabhai Patel in unification of Germany and integration of states of India respectively. The report should include :-
 - Condition of Germany before 1871 (Unification)
 - Condition of India immediately after 1947
 - Why was the need for unification in both the places?
 - Emergence of Bismarck and Sardar Patel, with their brief life history.
 - Their role in unification and integration.
 - How did the unification affect the growth of respective countries?
2. A small village in Bihar has a large number of landless farmers who are unemployed for six months in a year. Suggest any three ways the government can create more employment in that rural sector.
3. Survey 10 households in your locality to ask if they know the functions of their local municipality or Panchayat.
4. Create a map of India showing major soil types (Alluvial , Black, Red, Laterite and Arid). Write a brief description of each, focussing on their agricultural productivity.

