



BADRI NARAYAN SAHA D.A.V PUBLIC SCHOOL BLOCK ROAD, SIRSIA, GIRIDIH

SUMMER VACATION HOLIDAY HOME WORK-2025

SOCIAL STUDIES:

Find the dissimilarities and similarities between the methods adopted by Bismarck and Sardar Vallabhbhai Patel in the unification of their countries.

Make a project showing how industrial development leads to disturbance of the ecological balance (in your locality).

On an outline map of India, show the following:

- Two areas of black soil
- Two areas of alluvial soil

Compare the situation of Belgium and Srilanka considering their location, size and culture. Anita, a 26 year old women lives in a village .Her height is 1.45m and weight is 36 kg, while Nisha of the same age and height weights 48kg. What can be said about their nutritional condition?

HINDI:

- नीचे दिए गए शब्दों का पद परिचय दें ।
हिमालय, बाग, वे, शीत ऋतु, कहानी, बन गए, विद्वान, प्रतिदिन, संसार, वे सब ।
- सूरदास द्वारा रचित पद से किसी चार प्रश्नों का उत्तर लिखें ।
- 'नेताजी का चश्मा' पाठ से कोई पांच वैकल्पिक प्रश्न निर्माण करें तथा उसका सही उत्तर भी लिखें ।
- 'बाल गोविंद भगत' पाठ का सारांश लिखें ।
- 'ग्रीष्म ऋतु' की उपयोगिता बताते हुए एक अनुच्छेद लिखें ।

I.T:

How do you define effective communication skills, and why are they crucial in the workplace?
How do you ensure that you actively listen during conversations or meetings?
Share an example of a time when you had to provide constructive feedback to a colleague or team member.
Draw and label a diagram showing the "elements of communication."

Mathematics Q1: A rectangular garden has its length 2 meters more than twice its width.

- Write the area as a polynomial in terms of the width.
- If the width is 4 meters, find the area.
- For what width will the area be 96 m^2 ? Solve accordingly.

Q2. a) Define the degree of a polynomial. Give three examples and classify them.

b) What is a zero of a polynomial? Why are zeros of quadratic polynomials important?

c) If α and β are the zeros of the quadratic polynomial ax^2+bx+c , prove that:

$\alpha+\beta=-b/a, \alpha\beta=c/a$. Use an example to verify.

3. If one zero of the polynomial x^2+2x-8 is 2, find the other.

4. The relationship between zeros and coefficients for: a) $x^2 - 5x + 6$

b) $2x^2 + 3x - 2$

5. Find the LCM and HCF of 36 and 60 using prime factorization and verify:

$\text{HCF} \times \text{LCM} = \text{Product of the two numbers}$.

Case Study Based

6. Two buses start from the same stand at intervals of 20 minutes and 28 minutes.

a) In how many minutes will both buses leave the stand together again? (Use LCM)

b) How can this help in organizing a more efficient bus schedule?

c) If another bus joins and leaves every 16 minutes, when will all three buses leave the station together again?

7. Create a case study from real life situation based on Polynomial.

Based on above situation, create two questions of 1 mark each and 1 question of 2 marks. Also, find their solution (Use A4 size paper for question no. 7).

ENGLISH

1. Write a summary of the poem, "Dust of Snow". Write about the importance of the Crow and Hemlock tree in the poem.

2. Find out all the poetic devices used in the poem 'Dust of Snow's and 'Fire and Ice'.

3. "Excess of anything whether love or faith is not good for us". Justify the given statement with reference to the stories "A letter to God" and "A Triumph of Surgery".

4. Prepare tense charts using five examples of your choice.

5. Write an article on India's strength as a nation with reference to recent developments both internal and external. (200 words).



SANSKRIT

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प्रथमद्वितीयपाठयोः दत्तान् स्वर-व्यञ्जन-विसर्गसन्धिन् संगृह्य स्वाभ्यासपुस्तिकायां लिखन्तु अवगच्छन्तु च ।
अव्ययपदान् स्मरन्तु तथा स्वाभ्यासपुस्तिकायां लिखन्तु =सहसा, इतस्ततः, नूनं, वृथा, सम्प्रति, इदानीम् अधुना, ह्यः, श्वः, अद्य, पुरा
इत्यादयः ।

क्रीडाक्षेत्र-उपवनयोः चित्रं मनसि चिन्तयित्वा पञ्च वाक्यानि लिखन्तु स्वाभ्यासपुस्तिकायां ।
कोऽपि एकं अपठितगद्यांशं आदाय स्वाभ्यासपुस्तिकायां लिखन्तु अभ्यासं कुरुत च ।
पठितान् प्रत्ययान् (मतुप्, तल्, त्व, ठक्) पञ्चोदाहरणानि स्वाभ्यासपुस्तिकायां लिखन्तु स्मरन्तु च ।

SCIENCE:-

Give the six examples of Redox Reaction and identify the following in each reaction: -

(A) Substance oxidized (B) Substance reduced (C) Reducing agent (D) Oxidizing agent.

Convert the following word equation in to the balanced chemical equation:

1. Aluminum reacts with copper chloride and gives aluminum chloride and copper.
2. Nitric acid reacts with calcium hydroxide and gives calcium nitrate and water.
3. Iron on reaction with water vapour and form Iron oxide and evolve hydrogen gas.
4. Sodium metal reacts with water to form sodium hydroxide and evolve hydrogen gas
5. A lead compound reacts with potassium iodide and gives a yellow precipitate and potassium nitrate.

Write mirror image of alphabets of name of your family members.

Write down the uses of different types of mirrors that you observe in your surroundings.

Chemical Reaction "Flip Cards"

Make small flashcards:

One side: Name of the reaction (e.g., Decomposition)

other side: Equation + Example + Diagram Use them for learning or attach them in your project for readers to test themselves.

Write all type of chemical reaction in flashcard.

Environment Connection – Good & Bad Reactions. Make a chart with two columns.

Describe the journey of food in Human Digestive system.

"List your meals for three consecutive days. Compare your diet with a balanced diet chart and identify the nutrients that are lacking."

"Imagine you are a leaf cell in a green plant. Describe what you do during the process of photosynthesis in your own words."

Draw a well labelled diagram of Human Digestive system and write down the function of each parts.