

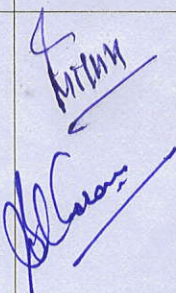



DAV PUBLIC SCHOOL, JAMALPUR.
HOLIDAY HOMEWORK FOR SUMMER VACATION (2026-27)

Class: X

Sl. No.	SUBJECT	Homework/Assignment	Subject teacher name & signature
1	English	<p>1-Students should write the names of some natural and holiday destinations, collect their photographs, and paste them on a chart paper.</p> <p>2- Literature-Read any poem and explain the poet's message in your own words.(in notebook)</p> <p>*Writing -Write a letter to your friend describing how you spent your holidays.(In notebook)</p> <p>3- Revise whole syllabus : letter to God . A triumph of surgery. Tenses.</p>	
2	Hindi	<p>1. बिहार के राष्ट्रीय स्तर पर प्रसिद्ध साहित्यकारों की जीवनी उपलब्धियों के साथ सचित्र लिखें।</p> <p>2. वाक्य और वाक्य की परिभाषा एवं भेद उदाहरण सहित लिखिए।</p> <p>3. निम्नलिखित विषयों पर अनुच्छेद लिखिए- (क) समय किसी के लिए नहीं रुकता (ख) आज की आवश्यकता-संयुक्त परिवार (ग) समाचार-पत्र एक : लाभ अनेक</p> <p>4. अपने क्षेत्र में सार्वजनिक पुस्तकालय खुलवाने की आवश्यकता समझने हेतु शिक्षा मंत्री के नाम एक पत्र लिखिए।</p> <p>5. आप गौरव/ गरिमा हैं। अपने विद्यालय की ओर से खेल प्रतियोगिता में भाग लेने के लिए आपको पटना भेजा गया है। खेल प्रतियोगिता का अपना अनुभव बताते हुए मित्र को पत्र लिखिए।</p>	
3	Sanskrit	<p>1. पाठ्यपुस्कात् प्रथमतः तृतीयः पाठपर्यन्तं पाठमध्ये प्रयुक्तं सन्धिं वा सन्धिविच्छेदं पदानि चित्वा अभ्यासपुस्तिकायां लिखत।</p> <p>2. पाठ्यपुस्कात् प्रथमतः तृतीयः पाठपर्यन्तं पाठमध्ये प्रयुक्तं समासं वा समासविग्रहपदानि चित्वा अभ्यासपुस्तिकायां लिखत।</p> <p>3. वृद्धि, यण्, अयादि सन्धयः चार्त्पेपरमध्ये प्रदर्शयत।</p> <p>4. बालक, लता, फल, मुनि, साधु, मति, अस्मद्, युष्मद्, तत्, एतत्, किम् इत्यादयः शब्दरूपाणि अभ्यास - पुस्तिकायां लिखित्वा स्मरत।</p> <p>5. पठ्, गम्, भू, दृश्, कृ, धातुरूपाणि (पञ्च लकारेषु) अभ्यासपुस्तिकायां लिखित्वा स्मरत।</p>	
4	Maths.	<p>Chapters: Real Numbers, Polynomials, Linear Equations in Two Variables</p> <p>Instructions</p> <p>Write all answers neatly in your maths notebook.</p> <p>Show complete steps for every question.</p> <p>Attempt all questions.</p>	

Chapter 1: Real Numbers

1. Find the HCF of 24 and 36 using prime factorization.
2. Find the LCM of 18 and 30.
3. Determine whether $7 \times 11 \times 13 + 13$ is composite or prime.
4. Write the decimal expansion of $5/8$.
5. State whether $13/125$ is terminating or non-terminating.
6. Find the HCF of 135 and 225.
7. Prove that $\sqrt{5}$ is irrational.
8. Find the HCF and LCM of 96 and 404 using prime factorization.
9. Without actual division, determine whether $21/160$ is terminating or non-terminating.
10. Check whether 6^n can end with digit 0 for any natural number n .
11. Prove that $\sqrt{3}$ is irrational.
12. A merchant has 84 apples and 90 oranges. He wants to arrange them in rows so that each row has the same number of fruits and only one type of fruit. Find the greatest number of fruits in each row.
13. Find the HCF of 867 and 255 using Euclid's algorithm.

Chapter 2: Polynomials

1. Find the degree of $5x^4 - 7x^2 + 9$
2. Find the zero of $p(x) = x - 5$.
3. Write a quadratic polynomial.
4. Find the value of $p(2)$ for $p(x) = x^2 + 3x - 4$.
5. Identify whether $x^3 + 2x + 1$ is linear, quadratic, or cubic.
6. Find the zeroes of $x^2 - 9$.
7. Verify the relationship between zeroes and coefficients for $x^2 - 7x + 10$.
8. Find a quadratic polynomial whose zeroes are 3 and -2 .
9. Factorize $x^2 - 11x + 24$.
10. Find the zeroes of $2x^2 - 5x - 3$ and verify the relationship between zeroes and coefficients.
11. Form a quadratic polynomial whose sum and product of zeroes are -5 and 6 respectively.

Chapter 3: Linear Equations in Two Variables

1. Write any two solutions of $x + y = 5$.
2. Check whether $(2, 3)$ is a solution of $2x + y = 7$.
3. Find the value of y if $x = 2$ in the equation $x + y = 10$.
4. Write the standard form of a linear equation in two variables.
5. How many solutions can a linear equation in two variables have?
6. Draw the graph of $x + y = 4$.
7. Find three solutions of $2x - y = 3$.
8. Check whether the point $(4, -1)$ lies on $x + 2y = 2$.
9. Represent graphically $y = 2x + 1$.
10. Find the coordinates where the graph of $x + y = 6$ cuts the axes.
11. Draw the graphs of $x + y = 5$ and $x - y = 1$ on the same graph paper and find their point of intersection.
12. The cost of 2 pens and 3 pencils is ₹39. Write a linear equation representing the statement.
13. A taxi charges ₹50 as fixed fare and ₹10 per km. Write the linear equation representing the total fare.
near equation in two variables?



Bonus Challenge

1. Form a polynomial whose zeroes are $1/2$ and -3 .
2. Draw the graph of $2x + 3y = 12$ and find where it intersects the axes.

Sahabul Shaikh
activity

(S. N. Q. No. 1)

5	Science	<p>PHYSICS Prepare a project file/project paper on the topic "Reflection of Light by Spherical Mirrors".</p> <p>Your project should include the following:</p> <ol style="list-style-type: none"> 1. Introduction <ul style="list-style-type: none"> * Meaning of reflection of light * Types of mirrors * Uses of spherical mirrors in daily life 2. Important Terms with Diagrams <ul style="list-style-type: none"> * Draw and explain: Pole, Principal Axis, Centre of Curvature, Radius of Curvature, Principal Focus, Focal Length 3. Laws of Reflection Write and explain the two laws of reflection with diagrams. 4. Ray Diagrams Draw neat and labelled ray diagrams showing image formation by: <ul style="list-style-type: none"> * Concave Mirror for different object positions * Convex Mirror * Mention in each case: <ul style="list-style-type: none"> * Position of image * Nature of image * Size of image 5. Related Concepts Explain: <ul style="list-style-type: none"> * Rules for drawing ray diagrams * Sign convention for spherical mirrors * Relation between radius of curvature and focal length * Magnification and its significance * Real and virtual images 6. Formulae <ul style="list-style-type: none"> * Mirror Formula * Magnification Formula 7. Applications in Daily Life <ul style="list-style-type: none"> * Paste/draw pictures showing uses of concave and convex mirrors. 8. Conclusion Write a short conclusion on the importance of mirrors in science and daily life. <p>Instructions:</p> <ul style="list-style-type: none"> * Prepare the project neatly on A4/project file sheets. * Use coloured pens/pencils wherever necessary. * Draw all diagrams neatly with proper labelling. * Include a cover page with Name, Class, Section, Roll Number, Subject, 	<p>Praveen Brahakar</p> <p>(Proven)</p> <p>PL (BSPS)</p>
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		<p>and Topic. * Attach an index page and page numbers properly.</p> <p>BIOLOGY (1) Prepare a project work on any one topic related to Life Processes. (2) Write the following two experiments neatly in the practical copy: *Experiment 1: To prepare a temporary mount of a leaf peel to observe stomata. *Experiment 2: To experimentally demonstrate that carbon dioxide (CO₂) is released during respiration. (3) Prepare Chapter – Life Processes covering the following topics: Nutrition, Photosynthesis, Digestion, and Respiration.</p> <p>CHEMISTRY Topic- Types of Reactions (1) Prepare a detailed project on Types of Chemical Reactions. (2) Write definitions and examples of each type of reaction. (3) Draw and label neat diagrams related to chemical reactions (4) Paste/draw pictures of reactions seen in daily life (rusting, burning, cooking, etc.). (5) Decorate the project file neatly and submit on time.</p>	 Shabnam Mishra S. Kumar
6	Social science	<p>HISTORY Choose any two freedom fighters and prepare on A4 Size paper:- Short biography Major contributions Famous slogans/quotes Pictures Suggested personalities: Mahatma Gandhi Subhas Chandra Bose Bhagat Singh Rani Lakshmi Bai</p> <p>GEOGRAPHY Prepare a chart showing different types of resources with examples. (On chart paper)</p> <p>ECONOMIC Prepare a project on “Consumer Rights”. 1. Include consumer rights, responsibilities, exploitation, and consumer awareness. 2. Paste pictures of ISI, AGMARK, Hallmark, and consumer court. 3. Add one real-life example related to consumer rights. 4. Use a well-decorated file cover file. Plastic files are not allowed. 5. Make the project neat, attractive, and creative</p>	 Nidhi Ajay P.


Class In-charge


Co-ordinator


Principal