



D Y PATIL INTERNATIONAL SCHOOL, BOKARO

Vidya Yihar Complex, Talgaria Road, Alkusa-827013
(Affiliated to C.B.S.E, New Delhi, up to +2 level, Affiliation no. 3430753)

HOLIDAY HOMEWORK (SUMMER VACATION)

SESSION: 2026-27

<u>GRADE -X</u>	
SUBJECT	TOPIC
ENGLISH	<p>Chapter 1: A Letter to God Write the character sketch of Lencho. Describe the importance of faith and hope in the story. Write five new words from the chapter and frame sentences. Poem: Dust of Snow Explain how nature influences human emotions in the poem. Learn and write the poetic devices used in the poem. Draw and colour the scene described in the poem. Poem: Fire and Ice Explain the symbolic meaning of “fire” and “ice”. Write the rhyme scheme of the poem. Prepare a short paragraph on how uncontrolled emotions affect human life.</p> <p>Chapter: A Triumph of Surgery Write the character sketch of Mrs. Pumphrey. Mention the reasons behind Tricki’s illness. Write the moral of the story.</p> <p>Grammar Section Subject-Verb Concord Write rules of Subject-Verb Concord with examples. Make 10 sentences using correct subject-verb agreement. Determiners Write the types of determiners with examples. Write 10 sentences using different determiners.</p> <p>Writing Section Letter to the Editor Write a letter to the editor of a newspaper about the increasing pollution in your city. Letter of Complaint Write a complaint letter to the manager of an electronic shop regarding a defective mobile phone purchased recently.</p> <p>Project Work Prepare a colourful chart on poetic devices used in the poems. Make a vocabulary notebook containing 30 new words from all chapters. Read an English newspaper daily and write one headline every day.</p> <p>Instructions Complete all work neatly in separate English notebooks. Submit the holiday homework after the summer vacation.</p>

<p style="text-align: center;">SCIENCE</p>	<p>PHYSICS</p> <ol style="list-style-type: none"> 1. Revise chapter: "Light: Reflection and Refraction" 2. Prepare a report on "Human eye". Include the following: Front page that includes school name and address, your topic, your name, submitted and guided by, session etc. Acknowledgement Index page Introduction of human eye [construction (proper well labelled diagram) and working of each part] Power of accommodation Defects of vision and their types Correction of defect (include proper ray diagram) bibliography <p>Note:</p> <ol style="list-style-type: none"> 1. Do your creativity in report in hand written format only 2. Report should be written in A4 size paper and should be submitted in stick file <p>CHEMISTRY:</p> <ol style="list-style-type: none"> 1. Show the different indicators and their colors in acidic or basic medium on a chart paper. 2. Prepare the chart to show all the characteristics of chemical reactions with suitable examples in an attractive manner. 3. Prepare a 3D model showing the organic compounds and inorganic compounds, such as SF₆, CO₂, H₂O, NH₃, CH₄, PCl₅ <p>Model Making</p> <ol style="list-style-type: none"> 4. Prepare a working model either on <ol style="list-style-type: none"> a)electrolysis of water or b) volcano or c)fire extinguishers 5. Complete the worksheet of chapter 1 (chemical reactions and equations) and learn it properly. C₂H₄, C₂H₂ and Benzene. (Attachment will be available on school ERP) <p>BIOLOGY:</p> <ol style="list-style-type: none"> 1. On a large chart paper, draw: - Human digestive system and explain its function. 2. Make a model of: Human heart OR Excretory system (Kidney) 3. Prepare a report on different types of blood groups in a joint family. 4. On a large chart paper, draw the respiratory system and label it. 5. Make a collage on different types of life processes. 6. Write and learn 30 questions and answers (Very short type) from the chapter "Life Processes"
<p style="text-align: center;">Social Science</p>	<p>Prepare a research-based Social Science Project as part of holiday homework in accordance with CBSE guidelines. The project aims to promote research skills creativity, critical thinking, presentation skills, and awareness of contemporary social issues.</p> <p>Instructions:</p> <ul style="list-style-type: none"> • Prepare the project on File Paper and Cover the File. • The work should be handwritten. • Maintain neatness and proper presentation. • Use relevant pictures, charts, maps, newspaper cuttings, survey data, case studies wherever required.

- Include Cover Page, Acknowledgement, Index, Introduction, Main Content (Various information on the topic), survey report, case study, Conclusion, and Bibliography.
- The project should reflect originality, research work, and creativity.
- Avoid direct copying from the internet.
- Viva will be conducted after submission.

Project Topics : (Topic will be allotted Roll Number Wise in the classroom)

Consumer Awareness, Sustainable Development, Disaster Management, Social Issues in India, Women

Empowerment, Digital Payments and Indian Economy,

Local Self Government, Road Safety Awareness, Effects of Globalization, Waste Management,

Importance of Education in Society

Cyber Safety and Responsible Use of Social Media, Role of Youth in Nation Building

2. Solve the worksheet sent through ERP in respective discipline classwork copy.

MATHEMATICS

Solve the following questions.

1. Obtain the zeros of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$ and verify the relation between its zeros and coefficients.
2. Find the quadratic polynomial, sum and product of whose zeros are -1 and -20 respectively.
3. Find the value of k such that the polynomial $x^2 - (k + 6)x + 2(2k - 1)$ has sum of its zeros equal to half of their product.
4. If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - 4x + 3$, find the value of $(\alpha^4\beta^2 + \alpha^2\beta^4)$.
5. Solve graphically the system of linear equations $x + 2y = 3$, $4x + 8y = 2$.
6. Show graphically that the system of equations $3x - y = 2$, $9x - 3y = 6$ has an infinite number of solutions.
7. Show graphically that the system of linear equations $2x - 3y = 5$, $6y - 4x = 3$ is inconsistent i.e. has no solution.
8. Solve each of the following given systems of equations graphically and find the vertices and area of the triangle formed by these lines and the x-axis.
 - (i) $x - y + 3 = 0$, $2x + 3y - 4 = 0$
 - (ii) $2x - 3y + 4 = 0$, $x + 2y - 5 = 0$
9. Solve each of the following given systems of equations graphically and find the vertices and area of the triangle formed by these lines and the y-axis.
 - (i) $2x - 3y + 6 = 0$, $2x + 3y - 18 = 0$
 - (ii) $4x - y - 4 = 0$, $3x + 2y - 14 = 0$
10. Solve for x and y .
 - (i) $x + y = 3$ $4x - 3y = 26$
 - (ii) $4x - 3y = 8$ $6x - y = \frac{29}{3}$
 - (iii) $\frac{5}{x} + 6y = 13$ $\frac{3}{x} + 4y = 7$
 - (iv) $71x + 39y = 253$ $37x + 71y = 287$
11. If $3\cot \theta = 2$, then prove that $\frac{4\sin \theta - 3\cos \theta}{2\sin \theta + 6\cos \theta} = \frac{1}{3}$
12. If $\tan \theta = \frac{1}{\sqrt{7}}$, then prove that $\left(\frac{\operatorname{cosec} \theta + \sec \theta}{\operatorname{cosec}^2 \theta - \sec^2 \theta}\right) = \frac{4}{3}$

	<p>13. If $x = \operatorname{cosec} A + \cos A$ and $y = \operatorname{cosec} A - \cos A$, then prove that $\left(\frac{2}{x+y}\right)^2 + \left(\frac{x-y}{2}\right)^2 = 1$</p> <p>14. Taking $A = 60^\circ$ and $B = 30^\circ$, verify that $\sin(A - B) = \sin A \cos B - \cos A \sin B$</p> <p>15. If $\sin(A + B) = 1$ and $\cos(A - B) = \frac{\sqrt{3}}{2}$, then find the values of A and B.</p>
Information Technology	Revise Ch-01 thoroughly from book.
HINDI	<p>क)आप अपने विद्यालय के खेल अधीक्षक हैं । जूनियर इंटर स्कूल टूर्नामेंट की जानकारी देते हुए विद्यार्थियों के लिए एक सूचना जारी करें ।</p> <p>ख)विदेश यात्रा पर जा रहे अपने मित्र या सखी को शुभकामना पत्र लिखें ।</p> <p>ग)आपके क्षेत्र में जल संकट है इसकी शिकायत करते हुए जल बोर्ड के अध्यक्ष को पत्र लिखिए ।</p> <p>घ) भक्ति कालीन कवियों में से किसी एक के विषय में उनकी रचनाओं के उदाहरण के साथ सार गर्भित सचित्र लेख लिखिए ।</p>
SANSKRIT	<p>Stick File में प्रथम पाठ के श्लोक एवं अर्थ लिखकर एक File तैयार करें।</p> <p>शब्दरूप -साधु,अस्मद्,युष्मद् शब्दों के शब्दरूप व्याकरण कॉपी में लिखकर याद करें।</p> <p>धातुरूप -स्मृ,भू धातु के धातुरूप व्याकरण की कॉपी में लिखकर याद करें।</p>