

# DAV BR PUBLIC SCHOOL, BINA

## Session (2024-25)



Class: X

### Integrated Assignment No: 02

<b>Date Posted</b>	<b>05-10 -24</b>	<b>Expiry Date</b>	<b>15-10 -2024</b>
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#### SCIENCE

1.	Draw the diagrams of image formation by concave and convex mirrors in different cases.
2.	Draw the diagrams of image formation by concave and convex lenses in different cases.
3.	Draw the diagrams of the Human eye and mention the functions of its six different parts.
4.	Write all the chemical properties of metals and non metals in note copy.
5.	Prepare a using app on your device with minimum 10 questions across and down of L6 or L7.(Group )
8.	Make an attractive and colorful mind map/ collage of nervous system/ endocrine system of your body.
9.	Make a 3 D Model of Neuron (medullated/Non modulated)/ Human brain/ Reflex arc or any one Biological system.

#### ENGLISH

S.NO	Topic - Writing Skills
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1.	Write an analytical paragraph about the impact of social media on youth today. In your response, analyze both the positive and negative aspects, providing examples to support your points.
2.	Consider a character from a novel or story you have studied in class. Write an analytical paragraph that discusses the character's development throughout the story. Include specific events that influenced the character's growth and how these events shaped their relationships with other characters.
3.	<p>Write a letter to the editor of a local newspaper expressing your concern about the increasing pollution in your city. In your letter, include specific examples of pollution sources, its effects on health and the environment, and suggest measures that the authorities can take to address this issue.</p> <p><b>Guidelines:</b></p> <ul style="list-style-type: none"><li>a. Use a formal tone.</li><li>b. Keep your letter within 150-200 words.</li><li>c. Include a proper salutation and closing.</li></ul>
4.	<p>Imagine you recently purchased a laptop from an electronics store, but it has several issues, such as a faulty battery and a malfunctioning keyboard. Write a letter to the store manager, detailing your complaints about the laptop. Include the following points:</p> <ul style="list-style-type: none"><li>1. The date and place of purchase.</li><li>2. A description of the problems with the laptop.</li><li>3. Your expectations for resolution (e.g., repair, replacement, or refund).</li><li>4. Any relevant details such as warranty information or previous attempts to resolve the issue.</li></ul> <p><b>(Word limit: 150-200 words)</b></p>

5.	<p>You are a student of Class X at DAV High School. You are interested in joining a summer camp that focuses on various activities like sports, arts, and science. Write a letter of enquiry to the camp coordinator, asking for details about the camp's duration, activities offered, fees, and any other important information.</p> <p>Make sure to include your address, the date, and a proper salutation.</p>
6.	<p>You are the manager of a local bookstore. Write a letter of order to a supplier requesting the following items:</p> <ol style="list-style-type: none"><li>1. 50 copies of "To Kill a Mockingbird" by Harper Lee</li><li>2. 30 copies of "Pride and Prejudice" by Jane Austen</li><li>3. 20 copies of "The Great Gatsby" by F. Scott Fitzgerald</li></ol> <p>Include your store's address, the date, and a polite closing. Make sure to ask for a prompt delivery.</p>

### HINDI

1.	<p>स्थानीय समाचार पत्र दैनिक भास्कर बीना के संपादक को आपके बीना शहर में विभिन्न प्रकार का बढ़ते प्रदूषण पर अपनी चिंता व्यक्त पत्र लिखकर करें। विशिष्ट उदाहरण शामिल करें :---</p> <p>प्रदूषण के स्रोत, स्वास्थ्य और पर्यावरण पर इसके प्रभाव और सुझाव इस मुद्दे के समाधान के लिए अधिकारी जनमानस क्या-क्या उपाय कर सकते हैं।</p> <p>दिशानिर्देश:</p> <p>औपचारिक स्वर का प्रयोग करें।</p> <p>अपना पत्र 100-150 शब्दों के अंदर रखें।</p> <p>उचित अभिवादन और समापन शामिल करें।</p>
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2.	<p>आज के आधुनिक युवाओं पर देशभक्ति के बारे में एक विश्लेषणात्मक अनुच्छेद लिखें। अपनी प्रतिक्रिया में सकारात्मक और नकारात्मक दोनों पहलुओं का विश्लेषण करें आपकी बातों का समर्थन करने के लिए उदाहरण।</p> <p>किसी उपन्यास या कहानी के किसी पात्र पर विचार करें जिसे आपने कक्षा में पढ़ा है। एक लिखें विश्लेषणात्मक अनुच्छेद जो संपूर्ण चरित्र के विकास पर चर्चा करता है कहानी उन विशिष्ट घटनाओं को शामिल करें जिन्होंने चरित्र के विकास को प्रभावित किया और कैसे इन घटनाओं ने अन्य पात्रों के साथ उनके संबंधों को आकार दिया।</p>
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### SANSKRIT

1.	विभक्ति तत पुरुषस्य समासस्य दश उदाहणम लिखन्तु विग्रहम च कुर्वन्तु -
2.	अव्ययीभाव समसस्य दश उदाहणम लिखन्तु विग्रहम च कुर्वन्तु -
3.	द्वंद्व समासस्य उदाहणम लिखन्तु विग्रहम च कुर्वन्तु -
4.	एतेषाम् शब्दानाम् विग्रहम् कृत्वा लिखन्तु - शब्दार्थी , पुरुषोत्तम , विद्यार्थी , नरेशः , नरेन्द्रः

### SOCIAL STUDIES

1.	Prepare timeline of the chapter The Rise of Nationalism in Europe.
2.	On the outline political Map of India locate the following places:- (a) Dandi (b) Chaurichaura (c) Champaran
3.	What measures can be taken for the conservation of forest?
4.	What do you understand about the Multipurpose river valley projects? On the political map of India Locate the Major multipurpose river valley projects.
5.	Briefly discuss about the decentralization power in India?
6.	What do you understand by 'Caste in politics and politics in caste.'

## MATHS

1.	Find the coordinates of the point Q on the $x$ -axis which lies on the perpendicular bisector of the line segment joining the points A $(-5, -2)$ and B $(4, -2)$ . Name the type of triangle formed by the points Q, A and B.
2.	If the point A $(2, -4)$ is equidistant from P $(3, 8)$ and Q $(-10, y)$ , find the values of $y$ . Also find distance PQ.
3.	Find the value of $m$ if the points $(5, 1)$ , $(-2, -3)$ and $(8, 2m)$ are collinear
4.	In what ratio does the $x$ -axis divide the line segment joining the points $(-4, -6)$ and $(-1, 7)$ ? Find the coordinates of the point of division.
5.	If P $(9a - 2, -b)$ divides line segment joining A $(3a + 1, -3)$ and B $(8a, 5)$ in the ratio $3 : 1$ , find the values of $a$ and $b$ .
6.	The line segment joining the points A $(3, 2)$ and B $(5, 1)$ is divided at the point P in the ratio $1:2$ and it lies on the line $3x - 18y + k = 0$ . Find the value of $k$ .
7.	The points A $(2, 9)$ , B $(a, 5)$ and C $(5, 5)$ are the vertices of a triangle ABC right angled at B. Find the values of $a$ and hence the area of ABC.
8.	Find the ratio in which the line $2x + 3y - 5 = 0$ divides the line segment joining the points $(8, -9)$ and $(2, 1)$ . Also find the coordinates of the point of division.

## ARTIFICIAL INTELLIGENCE

1.	What are the potential future advancements in AI?
2.	Discuss the impact of AI on the job market.
3.	How can we prepare for the AI-driven future?
4.	What are the ethical concerns associated with AI development?
5.	Discuss the potential biases in AI algorithms.
6.	How can we ensure AI is used for the benefit of humanity?