

**D.A.V. CENTENARY PUBLIC SCHOOL  
SECTOR-6, BAHADURGARH  
Session (2026-27) Class- IX**



**“A vacation helps to relieve stress and boredom, gives us a change of scenery, provides us with adventure, and helps to bring us closer to the people in our lives.”**

**By :- E. S. Woods**

***Dear Students,***

**Warm Wishes!**

**We pray and wish the best of health and cheerful times to you. Vacations is a time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these days. This summer vacation the holiday homework is designed for you all to achieve the motto of " Fun and Learn".**

**The activity based assignments will foster curiosity, develop creativity and instill the joy of learning among you all. So, make sure you extract the maximum benefit out of these holidays.**

***Summer Tips:***

- ❖ Start your day with gratitude and prayers.**
- ❖ Exercise daily and practice meditation.**
- ❖ Assist your mother in household chores.**
- ❖ Pledge for "Eat Right"- Less Sugar, Less Oil and Less Salt**
- ❖ Wash hands frequently, especially before and after meals**
- ❖ Read newspaper daily and stay updated with current affairs.**
- ❖ Water the plants and rejoice the beauty of nature**

## ENGLISH

- Q1) Read unit 1-4 chapters and write 5-5 extra question answers (short answer type, apart from the given exercise questions)
- Q2) Read poem 1-4 and write all the poetic devices used there (poem wise) along with the exemplary lines from the poem.
- Q3) Read chapters 1-4 and write 10 adjectives from chapter 1, 10 Nouns from chapter 2, 10 verbs & adverbs from chapter 3 and 10 linkers from chapter 4.
- Q4) Write a letter to the editor of any national daily describing your concern regarding the increasing use of unfair means in different exams. It includes both the children and the authorities but how negative is it for the hardworking students.
- Q5) Write a letter to your grandmother telling her about you and your family's surprise visit to her in the village as the vacation has started. Tell her how you will enjoy this quality time with all of them there.
- Q6) Write a story on your own. Don't forget to add on beautiful pictures/ sketches to make it more impressive.
- Q7) Draft a notice on behalf of the head boy/girl to inform and invite the students to the 'summer camp' going to be organized in the summer vacations.
- Q8) Read unit 1-4 (chapters & poems) and do the questions - 'Learning beyond the text' in the form of a project file.
- Guidelines: Take a file, decorate its cover, use A4 size coloured or stylish sheets, Prepare the starting sheets - Intro., acknowledgement, index, about your school, teacher, Kaveri, Then read the questions given in the book, present it on the A4 size sheet in a beautiful way like: drawing, cutting, pasting, collage, slogans, writing etc. as per the question's demand and arrange all the pages properly in that decorated file.
- Q9) Fill in the blanks by using the correct form of verbs/words given in the brackets: Yesterday, while \_\_\_\_\_ (write) about the significance of money order, I \_\_\_\_\_ (come) across a strange idea. In ancient times the people \_\_\_\_\_ (be) so dependent but with the passage of time everything \_\_\_\_\_ (change). Now, neither the villagers nor the cityman \_\_\_\_\_ (unaware) of netbanking. Even in no other country a person in remote villages \_\_\_\_\_ (be) so dependent. It \_\_\_\_\_ (reflect) the absolute confidence which most Indians \_\_\_\_\_ (place) in the system.
- Q10) learn and revise all the syllabus done till date.

## HINDI

- प्रश्न 1. दो बैलों की कथा और क्या निराश हुआ जाए पाठ में से 10 अतिरिक्त प्रश्नों (30-40 शब्दों में) का निर्माण कीजिए।
- प्रश्न 2. पद तथा राम-लक्ष्मण-परशुराम संवाद काव्य पढ़कर उसमें से 10 अतिरिक्त प्रश्नों (30-40 शब्दों में) का निर्माण कीजिए।
- प्रश्न 3. "हीरा और मोती" चरित्र स्क्रीपबुक (1-26)

विद्यार्थी “दो बैलों की कथा” पाठ के आधार पर हीरा और मोती नामक दोनों बैलों की चरित्र स्क्रेपबुक तैयार करें।

स्क्रेपबुक में निम्नलिखित बातें चित्रों सहित लिखें –

- दोनों बैलों का परिचय, उनका स्वभाव एवं गुण, उनकी भावनाएँ, कहानी की प्रमुख घटनाएँ, एक-दूसरे के प्रति उनका प्रेम और सहयोग, रंगों, चित्रों तथा सजावट की सहायता से स्क्रेपबुक को आकर्षक बनाइए।

**प्रश्न 4. राम-लक्ष्मण-परशुराम संवाद पाठ के आधार पर “धनुष यज्ञ” का 3D मॉडल तैयार कीजिए।  
(अनुक्रमांक 27 से 53 तक)**

विद्यार्थी गत्ते, मिट्टी अथवा अन्य सजावटी सामग्री की सहायता से “धनुष यज्ञ” दृश्य का आकर्षक मॉडल बनाएं।

मॉडल में राम, लक्ष्मण, परशुराम, राजा जनक तथा शिव धनुष आदि पात्रों / वस्तुओं को दर्शाइए। रंगों और रचनात्मकता का प्रयोग करके मॉडल को सुंदर एवं प्रभावशाली बनाइए।

**प्रश्न 5. “उपसर्ग-प्रत्यय वृक्ष”  
(अनुक्रमांक 1 से 25 तक)**

चार्ट पेपर पर एक आकर्षक पेड़ बनाइए।

पेड़ के तने पर “शब्द” लिखिए।

शाखाओं पर विभिन्न उपसर्ग एवं प्रत्यय लिखिए तथा पत्तियों पर उनसे बने नए शब्द लिखिए।

रंगों, चित्रों एवं सजावट की सहायता से चार्ट को सुंदर एवं रचनात्मक बनाइए।

**प्रश्न 6. “विशेषण इंद्रधनुष” गतिविधि  
(अनुक्रमांक 26 से 53 तक)**

चार्ट पेपर पर एक सुंदर इंद्रधनुष बनाइए।

इंद्रधनुष की प्रत्येक पट्टी में विभिन्न प्रकार के विशेषणों के नाम लिखिए, जैसे – गुणवाचक, संख्यावाचक, परिमाणवाचक, संकेतवाचक आदि।

प्रत्येक विशेषण के साथ उसके दो-दो उपयुक्त उदाहरण भी लिखिए।

रंगों, चित्रों एवं रचनात्मक सजावट की सहायता से चार्ट को आकर्षक बनाइए।

**प्रश्न 7. निम्नलिखित विषयों पर लगभग 120 शब्दों में अनुच्छेद लिखिए ।**

1. साइबर अपराध व सावधानियाँ
2. ध्वनि प्रदूषण को रोकने के उपाय

**प्रश्न 8 निम्नलिखित विषयों पर अनौपचारिक पत्र लिखिए -**

(i) अपने मित्र को पत्र लिखिए जिसमें उसे मोबाइल फोन के अत्यधिक उपयोग से होने वाली हानियों के बारे में समझाया गया हो।

(ii) अपने दादाजी / नानाजी को पत्र लिखिए जिसमें विद्यालय की गतिविधियों एवं अपनी पढ़ाई की प्रगति का वर्णन किया गया हो।

**MATHS**

1. The total number of legs in a herd of goat and hens is 40. Represent this situation in the form of a linear equation in two variables.
2. Write the linear equation such that each point on its graph has an ordinate 3 times its abscissa. If the point (3, 4) lies on the graph of  $3y = ax + 7$ , then find the value of a.
3. Find graphically the coordinates of the vertices of a triangle, the equation of whose sides are  $y = x$  ;  $3y = x$  ;  $x + y = 8$ .
4. If the ordinate of the point which lies on the line  $3x + y = 10$  is 4 , what is the abscissa of the point?
5. An electric bill cost Rs  $y$  for  $x$  kilowatt hours used each month. The equation for each family the electric bill is  $y = 0.06 x + 200$ . If a family's electric bill for 1 month was Rs 248, how many kilowatt the hours were used?
6. Rewrite each repeating decimal as quotient of integers.  $3.4\overline{121}$  .
7. The coordinates of two towns are A(3,5) and B(-1,9). A courier wants to go from A to B in a straight path. Find the distance between the two towns.
8. If  $2x + 3y = 13$  and  $xy = 6$ , find the value of  $8x^3 + 27y^3$ .
9. If  $x + y + z = 8$  and  $xy + yz + zx = 20$ , find the value of  $x^3 + y^3 + z^3 - 3xyz$ .
10. A park has two entrances at P(2,1) and Q(8,5). A security guard walks along the straight path joining the entrances. Find the distance he walks.
11. Find the point on the x-axis which is equidistant from (2, -5) and (-2,9).
13. Show that the points A(1,1), B(5,1) C(5,5) D(1,5) are the vertices of a square.
14. Make a square root spiral on A3 sheet connected with real life picture.
- 15 Make geometrical model representing the identity  
 $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ .

16. Make geometrical model representing factorization using algebra tiles  $X^2 + 11X + 30$ .

## SCIENCE

### Physics and Chemistry

1. **Activity:** Measure the time it takes you to walk from your front door to the gate. If your average speed is 1 m/s, calculate the distance.

2. **Practical Application:** While sitting in a moving train, why do the trees near the track appear to move backwards?

3. Under what condition is the magnitude of average velocity equal to average speed?

4. What can you say about the motion of an object whose distance-time graph is a straight line parallel to the time axis?

5. Describe an activity to separate cream from milk at home.

6. Explain the technique used to separate pigments from natural colours.

7. What is the Tyndall effect? Which type of mixtures show it?

8. **\*Scenario\*** : A student walks from one corner of a rectangular basketball court to the diagonally opposite corner by walking along the edges.

Q.i) If the court is 94 ft long and 50 ft wide,

what is the total distance covered and the magnitude of displacement?

**Q.ii)** Under what specific condition will the magnitude of displacement be exactly equal to the distance travelled?

9. **\*Scenario\*** : A stone is tied to a thread and whirled in a horizontal circular path with a constant speed.

Q.i) Even if the speed of the stone is constant, why is the motion described as "accelerated"?

**Q.ii)** In which direction does the stone move when released?

10. **\*Activity:\***

### Solubility and Temperature

**Objective:** To observe how temperature affects solubility.

**The Setup:** Dissolving salt or sugar in water until no more can be dissolved (saturated), then heating the solution.

Q.i) How can you make a saturated solution unsaturated?

**Q.ii)** What happens to the dissolved solute when a hot saturated solution is cooled?

11. Drive three equations of motion by graphical method.
12. A Student said, "The Earth moves around the sun". In this context, discuss whether an object kept on Earth can be considered to be at rest.
13. Graphic Representation: Create a chart with the help of thread demonstrating distance-time graphs for stationary, uniform, and non-uniform motions.
14. Design an educational game where players identify and apply separation techniques to different mixtures through interactive challenges and hands-on activities.

## BIOLOGY

1. Create a herbarium file of around 10 to 15 different kinds of plants, write down their medicinal uses and scientific names and paste the leaves of them on white sheets.
2. Make a working model of a cell or its organelle.
3. Bring one medicinal plant.
4. Explain the features of various cell organelles with diagram like Chloroplast , Mitochondria , Nucleus , Lysosome , Golgi body
5. Create a short comic of chapter cell and tissue
6. Write down the differences between plant tissues and animal tissues.
7. Create a foldable of chapter cell and tissues
8. Revise chapter cell and tissue.
9. Do following questions  
Differentiate between
  - a) Prokaryotic and Eukaryotic cells with example
  - b) Mitosis and meiosis
  - c) Diffusion and osmosis
  - d) Simple permanent and complex permanent tissues of plants
  - e) Blood and lymph
  - f) Bone and cartilage
  - g) Tendon and ligaments
10. Do given activities.

## SOCIAL SCIENCE

Students must record the answers to the questions given below in their assignment Notebook.

1. Learn ch -8 of Economics -"Building blocks in Economics"for FA2.
2. How does democracy accommodate social diversity ?
3. Voter apathy is considered a challenge to democracy .Give one reason
4. Scenario -Scientists have discovered a place where the ground is cracking open and hot Lava is leaking out to form a new Valley .  
Question- is this a convergent or divergent boundary ?Name one real world location where this is happening right now ?
5. Forests are more than just a collection of trees ;they are the foundation of human progress and conflict .Analyse the role of forest through the lenses of history, geography , pol science and economics.
6. How does rising income increase the problem of scarcity instead of reducing

it?

7. Examine the advantages and challenges of government intervention in a mixed economy.
8. Why can scarcity never be completely eliminated?
9. compare capitalist socialist and mixed economic systems.
10. Differentiate between labor intensive and capital intensive methods.
11. **ACTIVITY:-** Use different coloured wool or markers to show convergent boundaries( crashing), divergent boundaries( pulling apart) and transform boundaries ( sliding) on a world map.
12. Students are required to opt for one of the two project topics listed below  
A) **PROJECT WORK :- ( SHOULD BE DONE IN A CREATIVE SCRAPBOOK )**  
A group of people has just discovered an uninhabited Island .They must build a new society from scratch. Students must create a project report for this new nation.

(guidelines - finding history of island,topography ,island map,identify scarcity of resources,central problems on island like -food,shelter,weapons etc.opportunity cost to build houses,boats etc.govt.type,constitution )

B) What are disasters ?What are the essential components of a community-level disaster management plan?"

## INFORMATION TECHNOLOGY

1. Revise unit- 1,2 of Employability skills and Unit-3 of Data Entry Operator
2. Do the book exercises of unit 3 digital documentation in fair notebook(except QAns)
3. Write all the shortcut keys used in libre office.org writer.
3. Write differences between:  
a) Copying and moving data                      b) Page margin and paragraph indentation
4. Define the following:  
a. Page margin and its types                      b. Alignment and its types.  
c. Indentation and its types.                      d. Line spacing and its types.
5. Write the two methods to insert tables in libre office writer..
6. Give examples of any 4 word processing softwares.
7. What is the extension of LibreOffice Writer??
8. Project work:(as per roll numbers)\*(No charts to be made..))  
Roll no. 1-10 : Cutout on cardboard of any 1 cyber crime  
Roll no. 11-20 : Chart (A3 size) showing apps that supports **ARTIFICIAL INTELLIGENCE** (any four)  
Roll no. 21-30: Make a Chart on A3 size on Self Management Skills.  
Roll no.31- 40: Make a cut out of any one App  
Roll no. 41-last: Make a chart on A3 size sheet about the communication skills.

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