PM Shri Kendriya Vidyalaya BSF Campus,
Rajouri j&k

SUMMER VACATION HOME WORK (2025-26) Class-x

Sub- Art Education

🖼️ 1. Poster Making – Social Awareness

- Choose **one theme**:
    - *Gender Equality*
    - *Say No to Drugs*
    - *Mental Health Awareness*
- Design a **creative poster** with a message and illustrations.
- Use a combination of **text and visuals**.

🎨 2. Artist Study & Replication

- Choose an artist (Indian or International). Examples:
    - **S.H. Raza**, **Jamini Roy**, **Pablo Picasso**, **Amrita Sher-Gil**
- Replicate one of their artworks in your style.
- Add a write-up: Name of the artist, their style, and 5 lines about them.

🌿 3. Real Life Observation Drawing

- Make **2 detailed pencil sketches** based on observation (not imagination).
  Ideas: A corner of your room, your study table, a fruit bowl, a shoe, etc.
- Focus on **proportion, light, and shading**.

Sub- English

- Prepare a portfolio including your strength, weakness, and your attitude.
- Prepare any wall hanging or model taking any topic of grammar by using waste material.
- Learn all rules of tenses.
- Write Figures of speech in your notebook.
- Read English newspapers daily for better reading.
- Revise all work that we have done in the classroom.

Sub- Hindi

दिन 1–5:

क्षितिज से किसी एक कविता को चुनें और उसका चित्रमय प्रस्तुतीकरण करें।

कविता की दो पंक्तियों पर विचार लेखन करें।

पाठ 3–5 का अध्ययन करें और अपनी भाषा में सारांश लिखें।

दिन 6–10:

कल्पनात्मक लघुकथा लेखन: 'यदि मैं समय होता...'

कृतिका के किसी एक पाठ पर आधारित एक संवाद लेखन।

पसंदीदा लेखक या पात्र पर रचनात्मक लेख।

दिन 11–15:

क्षितिज पाठ्यपुस्तक से प्रेरित एक पोस्टर बनाएं।

पठन सामग्री से 10 कठिन शब्दों की शब्दावली बनाएं।

समसामयिक विषय पर अनुच्छेद लेखन: 'डिजिटल युग में नैतिकता'।

दिन 16–20:

पत्र लेखन: 'भविष्य के भारत के नाम एक पत्र'।

एक प्रेरणादायक कहानी सुनें और उसका सारांश लिखें।

क्षितिज की कविता से भावचित्र बनाएं।

दिन 21–25:

कृतिका की कहानी से प्रेरित नाटक दृश्य लेखन।

5 मुहावरे सीखें, चित्र बनाएं और उनका प्रयोग करें।

एक विज्ञापन लेखन: 'स्वस्थ जीवनशैली'।

दिन 26–30:

क्षितिज की कविता या गद्य से प्रेरित एक कविता लिखें।

चित्र पर आधारित कहानी लेखन।

माता-पिता या दादा-दादी से वार्तालाप और अनुभव लेखन।

दिन 31–35:

10 नए साहित्यिक शब्दों की सूची बनाएं और उदाहरण सहित लिखें।

एक मॉडल प्रश्न-पत्र तैयार करें और हल करें।

काव्य-सौंदर्य पर विश्लेषण करें: किसी कविता की पंक्तियों पर।

दिन 36–40:

पूरे गृहकार्य को एक सुंदर प्रोजेक्ट फोल्डर में सजाएं।

'क्षितिज और कृतिका मेरे दृष्टिकोण से' – विषय पर एक रचनात्मक निबंध।

पाठ्यपुस्तक की किसी कहानी को रंगमंचीय रूप दें और उसका संवाद लिखें।

Sub- SST

History

1. Project: Nationalism in India - Create a timeline (1857–1947) highlighting key events (e.g., Non-Cooperation Movement, Salt March). - Include causes, consequences, and roles of leaders like Gandhi, Nehru, and Bhagat Singh. - Presentation: Use maps, photographs, and quotes from primary sources.

2. Comparative Study - Compare India's freedom struggle with Vietnam's anti-colonial movement. Focus on strategies and outcomes.

Geography

1. Project: Sustainable Development - Investigate a local environmental issue (e.g., water scarcity, deforestation). Propose solutions like rainwater harvesting. - Map Work: Label and mark on an India map: - Major soil types - Cotton and jute-growing areas - Nuclear power plants

2. Case Study - Analyze the impact of globalization on Indian agriculture.

Political Science

1. Power-Sharing Analysis - Compare power-sharing models in Belgium and Sri Lanka. Present findings via a poster/chart.

2. Current Affairs Report - Research a recent political movement (e.g., farmers' protests). Discuss methods used and outcomes.

Economics

1. Mandatory Project: Consumer Awareness

- Design a campaign (posters, pamphlets) highlighting consumer rights and redressal mechanisms.

- Conduct a survey on consumer exploitation in your locality

Sub- Mathematics

WEEK ONE

1. Learn the formulas of the chapters done in class.

2. Practice at least 15 MCQ's of each chapter done by you in the class.

WEEK TWO

Write the solution of questions in Mathematics practice register

1. Find the largest integer that will divide 434 and 539 leaving remainder 9 and 12 respectively.

2. Can two numbers have 18 as their HCF and 694 as their LCM? Give reason.

3. Check whether 4^n, where n is a natural number, ends with the digit zero.

4. Prove that √11 is an irrational number.

5.Find prime factorization of (i) 1335 (ii) 23740

6.Two containers contain 850 litres and 680 litres of petrol respectively. Find the maximum capacity of a container which can measure the petrol of either tanker in exact number of litres.

7. Find the HCF and LCM of 6, 72 and 120, using the prime factorization method.

8. Show that 5 – √3 is irrational.

9.Given that LCM (26, 169) = 338, write HCF (26, 169)

10.The least number that is divisible by all the numbers from 1 to 10 (both inclusive) is
(A) 10 (B) 100 (C) 504 (D) 2520
11.If p and q are two prime numbers then L.C.M (p,q) is:

A)1 B) p C) q D) p xq

12. If the HCF of 65 and 117 is expressible in the form 65*m* – 117, then the value of *m* is

(A) 4 (B) 2 (C) 1 (D) 3

13.. The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is

(A) 13 (B) 65

(C) 875 (D) 1750

14. If two positive integers *p* and *q* can be expressed as

$p = ab^2$ and $q = a^3b$; *a*, *b* being prime numbers, then LCM (*p*, *q*) is

(A) *ab* (B) a^2b^2 (C) a^3b^2 (D)a^3b^3

15. The product of a non-zero rational and an irrational number is:

(A) always irrational (B) always rational

(C) rational or irrational (D) one

16. Which of the following is not a rational number?

a)$\sqrt{25}$ b) $\sqrt{16}$ c) $\sqrt{81}$ d)$\sqrt{87}$

17. 320 can be expressed as

***a*) $2^5 5^2$ *b*)$2^6 5^3$ *c).* $\frac{5^2}{5}$ d) $5^3 x 4^3/5$**

18. L.C.M. and HCF of two numbers are 36 and 6 respectively. If one number is 12 then the other number is

a)18 b)30 c)24 d)36

19. Which one of the following is an irrational number?

a)$\sqrt{4}$ b)$\sqrt{100}$ c)$3\sqrt{8}$ *d*)$\sqrt{0.64}$

20.If HCF of (26, 169) = 13, then LCM of (26, 169) is:

a)26 b)676 c)338 d) 13

21.The exponent of 2 in prime factorisation of 1000 is:

a)3 b)5 c)6 d)4

WEEK 3

1. Find the zeros of the following quadratic polynomials and verify the relationship between the zeros and their coefficients.

(i) $x^2 – 7x + 10$

2. For what value of k, is the polynomial $2x^3 – kx^2 + 5x + 9$ exactly divisible by x +2 ?

3. Find the quadratic polynomials whose zeroes are (i) √3, – √3 (ii) 6, –3.

4. Find the quadratic polynomials with the given numbers as sum and product of its zeroes respectively

(i) ¼ , –1 (ii) √2, 3√2 (iii) 0, √5 ((iv) √2 , 2 + √2

5. A polynomial of degree 2 is called ----------polynomial. (Cubic/ quadratic/ linear)

6. Find the quadratic polynomial whose sum and products of the zeros are 5 and -6.

7. Find the zeros of :

(i) $6x^2 - 7x - 3$ (ii) $4x^2 - 4x + 1$

8. Find the zeroes of the following polynomials by factorisation method and verify the relations between the zeroes and the coefficients of the polynomials:

i. $4x^2 - 3x - 1$
ii. $3x^2 + 4x - 4$
iii. $5t^2 + 12t + 7$

9. For each of the following, find a quadratic polynomial whose sum and product respectively of the zeroes are as given.

(i) $\frac{-8}{3}, \frac{4}{3}$ (ii) $\frac{21}{8}, \frac{5}{16}$

(iii) $-2\sqrt{3}, -9$ (iv) $\frac{-3}{2\sqrt{5}}, -\frac{1}{2}$

WEEK FOUR

1.Two rails are represented by the equations x + 2y – 4 = 0 and 2x + 4y – 12 = 0. Represent this situation geometrically.

2. Solve by substitution method as well as by graphical method

30x + 44y= 10 and 40x + 55y= 13

WEEK FIVE

(Project work/activities)

1. Perform following activities and write in Lab Manual

Activity 1:

OBJECTIVE : To draw the graph of a quadratic polynomial and observe:

(i) The shape of the curve when the coefficient of x^2 is positive.

(ii) The shape of the curve when the coefficient of x^2 is negative.

(iii) Its number of zeroes.

ACTIVITY 2

OBJECTIVE: To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.

Sub- Science

SUBJECT : Chemistry

1. Write and balance 10 chemical equations.

2. Make a short report on types of chemical reactions with examples.

SUBJECT :BIOLOGY

1) WRITE ANY ONE ACTIVITY FROM CHAPTER 1 LIFE PROCESSES IN A FILE(ACTIVITY FILETRANSPARENT)
2) PREPARE CHART ON ANY TOPIC FROM LIFE PROCESSES.
3) COMPLETE WORKSHEET THAT WILL BE SHARED IN CLASS GROUP.
4) FRAME 20 QUESTIONS (INCLUDING MCQ,ASSERTION AND REASON AND COMPETENCY BASED FROM TOPIC NUTRITION AND RESPIRATION.
5) REVISE CHAPTER 1.

Subject – Physics Worksheet will be share in group.

Sub- AI

Part A: Entrepreneurial Skills

1. Worksheet Activity:

Complete the following in your notebook:

List any 3 qualities of a successful entrepreneur with examples.

Identify a local entrepreneur (e.g., shop owner, startup founder) and write 5 sentences about their work and challenges.

2. Creative Task:

Imagine you are starting a small business (e.g., food truck, craft shop, mobile repair). Write a brief business plan (6–8 lines) including:

Name of business

Product/Service offered

Target customers

How you will promote it

Chapter: Green Skills

1. Short Notes (in notebook):

Write 5–6 lines on the following topics:

What is sustainable development? Why is it important today?

List any three practices you follow at home or school to protect the environment.

Explain the concept of ecological balance in your own words.

2. Green Careers Research:

Choose one green job (e.g., solar panel technician, environmental engineer, waste management worker).

Write a short paragraph (6–8 lines) about:

What the job is

Skills needed

How it helps the environment

Thankyou