

KENDRIYA VIDYALAYA PM SHRI MALKAPURAM

Holiday Homework: Summer Vacation (2026-27)

Class: X | Subject: Social Science

1. Project Work (SEA & IDP)

- A. ART INTEGRATED PROJECT : *Prepare a report on any ONE: Sustainable Development / Consumer Awareness / Social Issues.*
- B. Interdisciplinary Project (IDP): *Create a collage/report on 'Globalisation & Indian Economy' linking History (Great Depression), Geography (Transport Lifelines), and Economics (WTO).*

2. Written & Academic Tasks

- Question Bank: Write 5 objective Q&As (one-mark) for each: H-1 (Nationalism in Europe), C-1 (Power Sharing), E-1 (Development), G-1 (Resources).
- Current Affairs: Read news on 'Political Parties/Elections' and paste only 2-3 important articles from the entire break.

3. Map Practice

- Locate on India Map: INC Sessions, Satyagraha centers, Major Soil types, and Important Dams.
-

Note: Use A4 size papers. Submission Date: On the day of reopening after summer break.

PM SHRI KENDRIYA VIDYALAYA MALKAPURAM

CLASS X - SUMMER VACATION HOME-WORK (2026-27)

SUBJECT-MATHS

Instructions for Submission:

- Write in maths notebook from pin page.
- Submission Date: First day after summer vacation.
- Marks will be awarded for neatness, completeness, and creativity.

1. Prove that:

- a) $\sqrt{2}$ is an irrational number.
- b) $\sqrt{3}$ is an irrational number.

2. Write 5 examples each of:

- Linear polynomial
- Quadratic polynomial
- Cubic polynomial

3. Find the HCF and LCM of 56 and 72 using prime factorization.

4. For the quadratic polynomial $x^2 - 5x + 6$, find its zeros and verify the relationship between the zeros and the coefficients.

5. Verify that:

- $\text{HCF} \times \text{LCM} = \text{Product of the two numbers for } (48, 84)$.

6. Find the prime factorisation of 360 and express it as a product of primes.

7. Prove that $3 + 2\sqrt{5}$ is irrational.

8. Prove that $7\sqrt{2}$ is irrational.

9. Write the degree and number of terms in the following polynomials:

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

10. Find the zero(s) of the following polynomials:

- $x^2 - 7x + 10$
- $x^2 + 2x - 15$
- $x^2 - 9$

11. If α and β are the zeros of the polynomial $x^2 - 3x + 2$, find $\alpha + \beta$, $\alpha\beta$ and Verify the relationship with coefficients.

12. Form a quadratic polynomial whose sum and product of zeroes are:

- (a) 4, 1
- (b) -3, 2

VERY VERY IMPORTANT:

- Learn all the square till 25
- learn all the cubes till 12
- learn all the tables till 25
- learn divisibility rules till 17

BASICS MATHEMATICS

FILL IN THE BLANKS

1. _____ is the additive identity and _____ is the multiplicative identity of integers.
2. $(-1) \times$ even number of times = _____
3. $(-1) \times$ odd number of times = _____
4. $38 \div 0 =$ _____
5. $0 \div 11 =$ _____
6. $13 \div 1 +$ _____
7. $55 +$ _____ = 0
8. $(-31) +$ _____ = 0
9. $(-55) +$ _____ = -89
10. $(-33) +$ _____ = 79
11. $1000 +$ _____ = - 1000
12. $[(-7) + 9] +$ (_____) = $9 + [-7 + 4]$
13. $(-6) + 2 = 2$ (_____)
14. $251 \div$ _____ = 1

15. $(-70) \div \underline{\hspace{2cm}} = 5$
 16. $\underline{\hspace{2cm}} \div 993 = 0$
 17. $\underline{\hspace{2cm}} \div 2395 = 1$
 18. $(-3589) \div \underline{\hspace{2cm}} = -1$
 19. $22 \div \underline{\hspace{2cm}} = -11$
 20. $(-1) \times (-1) \times (-1) \times (-1) \times (-1) = \underline{\hspace{2cm}}$

I ANSWER THE FOLLOWING :

1. Verify $a - (-b) = a + b$ for the following values of a and b. i)

a = -17

b = +15

ii)

a

= 50

b = 21

2. Write a negative integer and a positive integer whose

a) sum -9

b) difference -4

c) sum 0

3. Find the value of each of the following products

i) $(-3) \times 15$

ii) $4 \times (-13)$

iii) $(-23) \times (-31)$

iii) $(-3) \times (-2) \times 7$

v) $2 \times (-3) \times (-1) \times (-5)$

vi) $(-259) \times (-51) \times 0$

vii) $(-8) \times 2 \times (-3) \times 5 \times (-1)$

viii) $(-2) \times (-4) \times 0 \times (-6) \times (-8)$

ix) $(-5) \times (-3) \times (-4) \times (-6) \times (-7)$

4. Verify the following

i) $(-25) \times [(-7) + (-15)] = [(-25) \times (-7)] + [(-25) \times (-15)]$

ii) $(-7) \times [(-8) + 9] = [(-7) \times (-8)] + [(-7) \times 9]$

5. Write down a pair of integers whose

i) sum is - 6 ii) difference -8

iv) difference 3 iv) sum 0

6. Find the value of each of the following

i) $39 \div (-13)$ ii) $(-729) \div 9$ iii) $(-144) \div (-12)$

iv) $(-20000) \div (-200)$ v) $20513 \div (-1)$

v) $(-49) \div [(-48) + (-1)]$ vii) $[84 \div (-12)] \div 7$

viii) $[(-10) + 5] \div [20 + (-15)]$

Physics - light Reflection and refraction - Identify the Questions from the attached Question papers from the chapter light Reflection and refraction up to the syllabus Covered and Write the answers for them in Class work Note Book.

Chemistry -Chemical reactions and Equations - Identify the Questions from the attached Question papers from the chapter light Reflection and refraction up to the syllabus Covered and Write the answers for them in Class work Note Book.

Biology-Life Processes (Nutrition)-Identify the Questions from the attached Question papers from the chapter light Reflection and refraction up to the syllabus Covered and Write the answers for them in Class work Note Book.

SANSKRIT HOLIDAY HW CLASS X

1.संस्कृत में अनुच्छेद लिखिए – (कोई 5)

देशः ,माता ,पर्यावरणम् ,योगा ,समयस्य सदुपयोगः , संस्कृतभाषा

2. हिन्दी अनुवाद के साथ 10 सुभाषित लिखिए ।

3. एक औपचारिक और एक अनौपचारिक पत्र ।

4.संधि के 15 उदाहरण पाठ्यपुस्तक से लिखिए ।

5. प्रत्यय के 15 उदाहरण लिखिए ।

6. धातुरूप लिखिए –पठ् धातु – 5 लकारों में ।

7.ART INTEGRATED WORK – प्रकृति में एकता इस विषय पर एक चित्र बनाइए ।(पाठ 3 के आधार पर)

(Do these activities in A4 sheets and submit as a single file)

7.ART INTEGRATED PROJECT –

SUMMER HOLIDAY PROJECT 2026–27

Purpose: For Promotion of Reading, Writing & Creative Expression

(To be submitted in a neatly prepared file after reopening of the Vidyalaya)

General Instructions for All Students

Prepare the project in a separate file/folder with your name, class, section and roll number.

Use neat handwriting and proper presentation.

Complete the work during summer vacation at your convenience.

Parents are encouraged to guide and interact with students.

Focus on joyful learning, creativity and originality.

Do not copy from the internet or others.

Keep the work simple, sincere and meaningful.

LEVEL 2 : Classes X

Section A – Reading Activities

Read one novel / biography / collection of stories / newspaper editorials. Maintain a Reading Journal for 10 days. Include:

- Title
- Summary of reading
- Favourite line
- Personal opinion

Section B – Writing Activities

1. Write a Holiday Reflection Diary (5 entries).
2. Write one article (150–200 words) on **any one** topic:
 - Importance of Discipline
 - Social Media: Boon or Bane
 - Save Environment
3. Write one Letter to Editor on any topic.

Section C – Creative Expression

- Write a book review in proper format.
- Create a magazine page with poem, article, drawing and puzzle. Send a soft copy(word format) of it to swatirathkv@gmail.com

Section D – Interactive Learning



Edit with WPS Office

- Discuss with parents/elders on: How life was different in their school days. Write key points.
- Learn and use 25 new vocabulary words in sentences.
- Read one news article aloud and discuss it with family.

Section E – SUBJECT ENRICHMENT ACTIVITIES

1. Make any one:

- Infographic on a book/author
- Collage on “Power of Education”
- Illustrated timeline of a famous personality

2. Article Writing

You are deeply moved after reading about Nelson Mandela.

Write an article on:

“The Struggle Against Apartheid and the Role of Nelson Mandela”

3. Make a tense chart.

4. Go on a short walk near your home and write a 4-sentence story or poem about what you saw. Send a soft copy (word format) of it to swatirathkv@gmail.com

ART INTEGRATED PROJECT

- You are a travel designer. Prepare a tourism brochure on Glimpses of India highlighting any one region from the chapter (Goa / Coorg / Assam).

Your brochure should include:

- An attractive title and slogan
- Brief introduction of the place
- Key geographical features and climate
- Culture, traditions, and local lifestyle
- Famous food and festivals
- Major tourist attractions
- A short appealing paragraph inviting tourists (80–100 words)

Art Integration:

Add drawings, borders, or images related to the region

Use colours and creative layout



Note to Students:

Enjoy your holidays, help at home, stay healthy, read daily and return with fresh energy and new ideas!



Edit with WPS Office