

JAIN BHARATI MRIGAVATI VIDYALAYA HOLIDAY HOMEWORK SESSION 2025-26







JAIN BHARATI MRIGAVATI VIDYALAYA

HOLIDAYS HOMEWORK 2025-26

ENGLISH

1. PERSONAL JOURNAL

Maintain a personal journal over the holidays (Minimum 4 entries). Use a mix of the following:

- A moment this holiday that changed the way I think
- A book or movie which made me see the world differently
- A letter to future myself
- \circ $\,$ The Author's story, My way- Write an extension to the story A Triumph of Surgery
- Literature Alive!: Write a monologue with the fears and apprehensions of the young seagull before he made his first flight
- My General Knowledge Kit- Based on your reading of newspapers, at least 25 General Knowledge questions. Give information about newly released books and their authors (any two books and their authors).
- 2. BOOK REVIEW WITH A TWIST

Read one age-appropriate fiction novel (not from your textbook). Write a review (200-300 words), including:

- Summary in 2-3 paragraphs
- A creative alternate ending to the novel
- A short paragraph summarizing your opinion about the book
- Would you recommend this to a friend? Why?

You may think of books by authors like Ms. Sudha Murty, JK Rowling, Mr. Vikram Seth, Rukin Bond, et.al

3. Grammar Mystery Challenge

You are a grammar detective! Below are some short passages with grammatical errors. Identify and correct them.

The old clock tower, once a symbol of the town's pride, stood silent. Its hands frozen at 2:15, a grim reminder of the tragedy. Locals remembers the day of the great fire when it started to burn. The clock had been a witness to countless of events, from the village fairs to the solemn funerals. Now, dust coated its intricate carvings and the air hung thick with the smell of decay. Many felt like it should be fixed but the town council couldn't come to a agreement about the cost. The clock tower, a monument to both a vibrant past and a tragic present, slowly succumbed to neglect.

Once upon a time, there was a boy name Rahul. He lived in a small village near the forest. Rahul loved exploring the woods and enjoy the chirping of birds. One day, while he was walking through the forest, he seen a strange plant. It had leaves that shines brightly in the sunlight. Rahul decides to take the plant home and show it to his father. His father, a farmer, told him it are a rare medicinal herb.

Although Martin Luther is considered to being an icon for racial equal, his work exceeds far beyond that As a pastor, he worked to human betterment, irrespective of colour or creed. He believed in a word of the lord and implemented his virtues like kindness on his daily activities.

4. Read and revise all the topics covered in April and May.

5 HIDE AND SEEK

Ten poetic devices are hidden in the given word search puzzle Identify them and circle them. Then define them with examples from the poems you have learnt

Metaphor, Simile, Personification, Alliteration, Assonance, Rhyme, Imagery, Repetition, Refrain, Enjambment, Irony.

Μ	A	С	E	Z	Y	W	X	Р	B	E	L	Т	R	R
Α	E	E	Ν	G	Α	N	S	Α	F	Ν	D	F	G	Е
Z	A	Т	F	Α	E	Ε	Ν	L	Η	J	A	Ν	D	F
S	Р	E	Α	Z	A	Т	F	L	J	A	Y	W	A	R
0	С	Ι	A	Р	E	Р	E	Ι	L	М	E	В	S	A
R	L	0	F	Т	Н	Ι	Т	Т	N	B	G	М	S	Ι
Н	Y	Р	E	R	B	0	L	E	Р	М	Р	W	0	N
Y	N	Ι	F	Ι	С	N	R	R	R	E	F	S	N	S
М	S	Ι	E	Z	Y	U	V	A	Т	N	J	K	A	U
E	Ι	М	R	R	E	Р	E	Т	Ι	Т	Ι	0	N	R
F	М	A	A	Ι	D	С	F	Ι	V	A	В	С	С	V
Ι	Ι	G	Т	S	Ι	D	R	0	X	E	L	Μ	E	Т
G	L	E	Ι	Т	Μ	0	0	N	Z	Т	F	Ι	B	V
Р	E	R	S	0	N	Ι	F	Ι	С	A	Т	Ι	0	N
L	Α	Y	B	Y	С	Α	С	E	G	Ι	K	Μ	0	Q

Take a printout of this page and do this task

Do your homework in A 4 size sheets, add them to your portfolio and submit on the reopening day

HAPPY HOLIDAYS!

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ग्रीष्मकालीन अवकाश गृहकार्य
. कक्षा - दसवीं
1. मेरी कहानी : मेरी ज़ुबानी
निम्नलिखित बिंदुओं को ध्यान में रखते हुए एक पोर्टफोलियो तैयार कीजिए -
*भूमिका
*मेरी सामर्थ्य
*मेरी उपलब्धियाँ
*पाठ्य सहगामी क्रियाएँ व सांस्कृतिक गतिविधियाँ जिनमें मैंने भाग लिया
*पुस्तकें जो मैंने पढ़ी
*पुस्तकें जो मैंने पढ़ी
*पुस्तकें जो मैं पढ़ना चाहूँगा / चाहूँगी
*मेरा शैक्षणिक प्रदर्शन
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2. वाणी का विवेक : समय की मॉग
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राम-लक्ष्मण-परशुराम संवाद में लक्ष्मण की वाणी में व्यंग्य और राम की वाणी में शांति स्पष्ट दिखाई देती है। इस संदर्भ में बताइए कि क्रोध और संयम के माध्यम से समस्या का समाधान किस प्रकार भिन्न होता है?क्या आज के समय में लक्ष्मण जैसी प्रतिक्रियाएँ उचित हैं या राम जैसे संयम की आवश्यकता है? अपने विचार स्पष्ट कीजिए।

3. पठन - पाठन यात्रा : कृतिका के साथ

क) सिक्किमः हिमालय की हृदयस्थली में बसा एक अनोखा व खूबसूरत राज्य -प्रकृति, परंपरा व प्रगति का संगम। उसकी प्राकृतिक सुंदरता, भौगोलिक विशेषताओं, लोक संस्कृति, पर्यटन स्थल, तेज़ी से बदलती अर्थव्यवस्था और पर्यावरण संरक्षण का विश्लेषण करते हुए एक परियोजना (प्रॉजेक्ट) तैयार कीजिए।

ख) 'माता का अंचल' पाठ को पढ़कर 2-3 पात्रों वाला एक लघु नाटक तैयार कीजिए।
 *संवाद, मंच-विन्यास, और एक छोटा-सा चित्र (या कोलाज) भी जोड़ें।
 *आप चाहें तो इसे अभिनय करके वीडियो के रूप में भी प्रस्तुत कर सकते हैं (वैकल्पिक)।

4 कल्पना की उड़ान : रचनात्मक लेखन गतिविधि

*दिए गए विकल्पों में से किसी एक विषय पर रचनात्मक लेख (250-300 शब्दों में) तैयार कीजिए:

* "अगर मैं समय में पीछे चला जाता..."

* "एक दिन जब मोबाइल बोलने लगा..."

* "अगर किताबें जी उठें तो क्या होगा?"

(युक्तिः अपनी रचना में संवाद, भावनाएँ और कल्पना का रोचक मिश्रण करें।)

कृपया ध्यान दें - ग्रीष्मकालीन अवकाश गृहकार्य रूल्ड शीट्स पर ही करें।

HOLIDAY HOMEWORK

CLASS X

MATHEMATICS

- 1. Find the largest number that will divide 398, 436 and 542 leaving remainders 7, 11, and 15 respectively.
- 2. HCF and LCM of two numbers is 9 and 459 respectively. If one of the numbers is 27, find the other number.
- 3. Find the largest number which divides 70 and 125 leaving remainder 5 and 8 respectively.
- 4. The decimal expansion of the rational number $\frac{43}{5^7 2^8}$ will terminate after how many places of decimals?
- 5. Prove that $\sqrt{5}$ is an irrational number. Hence prove that $2 + 3\sqrt{5}$ is an irrational number.
- 6. If α and β are the zeroes of the polynomial $ax^2 + bx + c$, find the value of $\alpha^2 + \beta^2$.
- 7. If the sum of the zeroes of the polynomial $p(x) = (k^2 14) x^2 2x 12$ is 1,then find the value of k.
- 8. If the sum of the zeroes of the polynomial $p(x) = (k^2 14) x^2 2x 12$ is 1, then find the value of k.
- 9. Find the condition that zeroes of polynomial $p(x) = ax^2 + bx + c$ are reciprocal of each other.
- 10. Form a quadratic polynomial whose zeroes are $3 + \sqrt{2}$ and $3 \sqrt{2}$.
- 11. If the zeroes of the polynomial $x^2 + px + q$ are double in value to the zeroes of $2x^2 5x 3$, find the value of p and q.
- 12. For what value of k, the pair of equations 4x 3y = 9, 2x + ky = 11 has no solution?
- 13. Solve the following pair of linear equations for x and y:

$$141x + 93y = 189;$$

$$93x + 141y = 45$$

14. Solve the following pair of linear equations for x and y:

$$(b/a)x+(a/b)y = a^2 + b^2; x + y = 2a$$

15. Find the value of a and p for which the following pair of linear equations has infinite number of solutions:

$$2x + 3y = 7;$$

$$\alpha x + (\alpha + \beta)y = 2$$

- 16. A man earns ₹600 per month more than his wife. One-tenth of the man's salary and 1/6th of the wife's salary amount to ₹1,500, which is saved every month. Find their incomes.
- 17. Sita Devi wants to make a rectangular pond on the road side for the purpose of providing drinking water for street animals. The area of the pond will be decreased by 3 square feet if its length is decreased by 2 ft. and breadth is increased by 1 ft. Its area will be increased by 4 square feet if the length is increased by 1 ft. and breadth remains same. Find the dimensions of the pond.
- 18. Speed of a boat in still water is 15 km/h. It goes 30 km upstream and returns back at the same point in 4 hours 30 minutes. Find the speed of the stream.

19. A) A train travels 180 km at a uniform speed. If the speed had been 9 km/hour more, it would have taken 1 hour less for the same journey. Find the speed of the train.B) In a flight of 2800 km, an aircraft was slowed down due to bad weather. Its average speed is reduced by 100 km/h and time increased by 30 minutes. Find the original duration of the flight.

C) While boarding an aeroplane, a passenger got hurt. The pilot, showing promptness and concern, made arrangements to hospitalise the injured and so the plane started late by 30 minutes. To reach the destination, 1500 km away in time, the pilot increased the speed by 100 km/hour. Find the original speed/hour of the plane.

20. A) Solve Previous Year Board questions of chapters 1-5 in Practice notebook.B)Prepare a Model of any topic of your choice of Mathematics in Group (Maximum of 4 Students) .

HOLIDAY HOMEWORK CLASS-X SUBJECT- SCIENCE (SESSION 2025-26)

 Agenda 2030 refers to the 2030 Agenda for Sustainable Development, which was adopted by all United Nations Member States in 2015. At its core are the 17 Sustainable Development Goals (SDGs), which serve as an urgent call to action by all countries both developed and developing.
 Chasse are a fithe SDCs that means the mest. Make a project that includes

Choose **one** of the SDGs that resonates with you the most. Make a project that includes the following elements:

- a) Introduction:
 - Briefly explain what the SDGs are.
 - State the specific SDG you have chosen and why it is important to you.
- b) Goal Description:
 - Provide a detailed description of your chosen SDG, including its targets and indicators.
- c) Current Status:
 - Discuss the current progress towards achieving this goal globally or in a specific region or country.
- d) Challenges:
 - Identify and explain the challenges or barriers to achieving this goal.
- e) Personal Connection:
 - Share any personal experiences or observations that relate to the goal.
- f) Reflection:
 - Propose actions that individuals, communities, or governments could take to advance this goal.

Add pictures, data, maps etc to make it more effective.

- 2. Draw a well labelled diagram of Human Brain
- 3. Find some scientific ways to boost your memory, attention and retention.
- 4. Design a Mind Game! Think about the type of mind game you want to create. It can be a puzzle, a memory game, a riddle-based challenge, or something entirely unique.
- 5. Look at the periodic table and find the element with the atomic number that matches your class roll number.
 - Gather information about your element, including its name, symbol, atomic mass, and its position in the periodic table.
 - Explore its physical and chemical properties, common uses, and any interesting historical facts or discoveries related to it.
- 6. Do the Comparative Analysis of Concave Mirrors and Convex Lenses
 - Document the characteristics of the images formed at various distances from the mirror/lens.
 - Include ray diagrams to illustrate your observations.
- 7. Test household substances like lemon juice, detergent, disinfectant liquids etc using turmeric. Document pH observations and explain how acids and bases interact in daily life.
- 8. Identify common metals and nonmetals at home and compare their physical and chemical properties. Discuss their real-world applications in health.

- Prepare a family tree of at least 3 or 4 generation.
 Sit with your grandparents and learn about your family tree.
 Look for
 - Inherited traits in family members
 - Genetic diseases, if any
 - No. of male and female members
 - Characteristics you inherited from your mother and father.
 - Observe the earlobes and their ability to roll tongue. Calculate the % of each trait.
- 10. Note the blood groups of your family members.
- 11. Complete ENERGY LITERACY TRAINING, if not yet done and add the certificate in your portfolio.

HOMEWORK TO BE DONE ON A-4 SHEETS AND ADDED IN PORTFOLIO

Summer Vacation Holiday Homework

(Session 2025-26)

SOCIAL SCIENCE (087)

- 1) Make a Interdisciplinary project on the following topic (Any one)
- a) Consumer Awareness
- **b)** Social Issues
- c) Sustainable Development

2) Map Work :-

- 1) Congress sessions:
- 2) 1920 Calcutta
- 3) 1920 Nagpur.
- 4) 1927 Madras session
- 5) Major soil Types
- 6) Salal
- 7) Bhakra Nangal
- 8) Tehri
- 9) Rana Pratap Sagar
- **10) Sardar Sarovar**
- 11) Hirakud
- 12) Nagarjuna Sagar
- 13) Tungabhadra
- 14) Kandla
- 15) Mumbai
- 16) Marmagao
- 17) New Mangalore
- 18) Kochi

3) Read the chapters done so far from your NCERT textbooks and form at least 40 very short objective type questions with answers from each chapter.

4) Choose a prominent leader or personality from history, such as Mahatma Gandhi, Nelson Mandela, or Martin Luther King Jr. Write a comprehensive biography highlighting their life, contributions, and impact on society. Include relevant pictures and quotes.

5) Select an economic issue, such as inflation, poverty, or unemployment, and conduct a detailed analysis of its causes and consequences. Explore potential strategies and policies to address the issue. Support your analysis with relevant statistics and case studies.

JAIN BHARATI MRIGAVATI VIDYALAYA SESSION-(2025-2026) CLASS -X (ARTIFICIAL INTELLIGENCE) HOLIDAY HOMEWORK

NOTE :-All the following activities are part of the internal assessment. For this student will be assessed out of 20 marks .

* Programming Skills :

Run the following python programs in Python IDLE and Compile the same for final Practical file .(Coding for the program and output both should be included in file)

- 1. Write a program to check whether a number is even or odd .
- 2. Write a program to check whether the given character is an uppercase letter or lowercase letter or a digit or a special character.
- 3. Write a program to find the maximum number out of the given three numbers.
- 4. Write a program to check whether the entered number is Armstrong or not.
- 5. Write a program to print a multiplication table of the entered number.
- 6. Write a program to calculate area of circle .
- 7 Write a program to create simple calculator.
- 8 Program to calculate the area of rectangle.
- 9 Program to convert Celsius to Fahrenheit.
- 10 Program to check the entered year is leap year or not.

* Experiential Learning

* Create a 4W Project Canvas for the following.

As more and more new technologies get into play, risks will get more concentrated into a common network. Cybersecurity becomes extremely complicated in such scenarios and goes beyond the control of firewalls. It will not be able to detect unusual activity and patterns including the movement of data.

Think how AI algorithms can scrape through vast amounts of logs to identify susceptible user behaviour Use an AI project cycle to clearly identify the scope, how you will collect data, model and evaluation parameters.

Topic - Problem Scoping

ग्रीष्मावकाशार्थं गृहकार्यम्

कक्षा - दशमी

विषयः - संस्कृतम्

सत्रम् - 2025-26

निर्देशः -

- · सर्वाणि उत्तराणि संस्कृतेन एव लेखनीयानि।
- · कार्यं संस्कृत-पञ्जिकायां लेखनीयम् ।
- लेखने शुद्धता स्यात्।

क अधोलिखित-पदैः एकैकं वाक्यं रचयत -

नमामि, लिखामि, नमन्ति, सर्वे, भारतम्, जानामि, वदति, गायन्ति, गृहकार्यम्, पुस्तकम्, रामायणम्, सूर्यः, जलम्, संस्कृतम्, विद्यालयः, खेलसि, लेखनी, धनम्, ईश्वरः, महाभारतम्, पाठयति, गृहम्, यानम्, देशे, अध्ययनम्, मित्रम्, दूरवाणीयन्त्रम्, रेलयानेन, पृच्छामि, बालकस्य, कृष्णसर्पः

ख अधोलिखितानि धातुरूपाणि निर्देशानुसारं लिखत –

अस्, कृ, खाद्, पा, दृश्, स्था (लट्-लोट्-लृट्-लङ्-लकारेषु)

ग अधोलिखितानि शब्दरूपाणि निर्देशानुसारं लिखत -

नदी, मातृ, पितृ, अस्मद्, युष्मद्, तत्- त्रिषु लिङ्गेषु, एतत्- त्रिषु लिङ्गेषु, किम्- त्रिषु लिङ्गेषु

- घ स्वपरिचयं दशसु वाक्येषु लिखत।
- ङ कानिचित् पञ्च चित्राणि स्थापयित्वा प्रत्येकं चित्रस्य पञ्चसु वाक्येषु वर्णनं कुरुत ।