



GANGA INTERNATIONAL SCHOOL
SAWDA, NEW DELHI

SUMMER *Holidays* **HOMEWORK**

2026-27

CLASS X



LEARN



EXPLORE



ACHIEVE

Stay Curious. Keep Learning. Shine Always.

Dear
Parents,

Assignments
are not meant to
burden families –
they are designed to
inspire young minds.



HANDS-ON LEARNING



A poster, a model, or a hands-on activity may appear straightforward, yet for a child, it transforms into a **powerful** opportunity to **discover through experience.**

Concepts that seem abstract in textbooks come alive when students engage with them through creation and exploration.

LEARN TOGETHER



DISCOVER • CREATE • GROW



When children engage genuinely in these activities — guided lovingly by parents — learning transforms into something far more **meaningful, imaginative, and enduring.** ♥



Our aim is never to measure flawlessness — it is always to nurture **genuine effort** and **deeper comprehension.** ♥

A CHILD'S GROWTH PATH



Thanking You, ♥

Ganga International School, Sawda

— TEAM GIS SAWDA —

General Instructions

Dear Parents,

This thoughtfully curated holiday homework has been designed to keep your child meaningfully engaged, intellectually stimulated, and closely connected with nature throughout the vacation. The activities provided are a balanced blend of academic enrichment, creative exploration, life skills, and character-building experiences aimed at fostering overall growth and development. We warmly encourage parents to actively support, guide, and participate in these learning experiences alongside their children. All completed tasks should be carefully documented through photographs, written observations, creative samples, or activity records and submitted upon reopening of the school. These enriching activities will play a significant role in nurturing the holistic development of your child while ensuring that learning remains joyful, purposeful, and memorable.

Happy learning and happy holidays!

1. Shlokas

- ◆ Learn and recite 5 shlokas — speak them aloud daily and write them in a notebook.

2. Moral Values

- ◆ Practise one moral value each day (kindness, honesty, gratitude, respect) and write a short reflection in a diary.

3. Grow & Adopt a Plant

- ◆ Plant a seed or sapling, water it daily, and maintain a photo diary of its growth through the holidays.

4. Create a Bird Nest

- ◆ Watch a YouTube tutorial and create a bird nest using natural materials; place it in a safe spot for birds to use.

5. Water Pots for Birds

- ◆ Place a shallow water pot on your terrace daily; observe which birds visit and click photographs as a field record.

6. Herbarium File

- ◆ Collect 8–10 leaves or plant specimens, press and dry them, then mount and label each one in a file.

7. Microgreens & Sprouts

- ◆ Grow microgreens at home, include them in your diet, and write a short note on what you learned about their nutritional value.

□ 8. Yoga Ritual

- ◆ Practise yoga for 15–20 minutes every morning and maintain a daily yoga log.

□ 9. Positive Affirmations

Students are encouraged to include the following affirmations in their morning routine:

- I am always happy.
- I am calm and stable in every situation.
- My memory and concentration are excellent.
- I eat healthy food; my body is perfect and disease-free.
- I use gadgets only for studying.
- I respect everyone. I respect nature.

Wishing you a joyful, green, and purposeful holiday! □

ENGLISH

Theme: Think, Express & Transform

1. LITERATURE ENRICHMENT

Task: Read any story written by G.L. Fuentes except ‘A Letter to God’. Subsequently, prepare an 80-word summary of the story highlighting the central idea and important events.

Life Lesson: Mention the moral values or life lessons that you have acquired from the story in an expressive and reflective manner.

Note: This task must be completed neatly in the fair notebook.

2. WRITING SKILLS PORTFOLIO

Article Writing: Write an article on the topic: ‘Importance of Time Management in Students’ Life’.

Letter to the Editor: Compose a formal letter to the editor on the topic: ‘Importance of Reading Books in Our Day-to-Day Life’.

Speech Writing: Prepare a speech on the topic: ‘Social Media – A Boon or a Bane’ using persuasive and impactful vocabulary.

3. FILM / BIOGRAPHY REVIEW

Task: Watch a motivational movie or a biography and prepare a comprehensive review mentioning the theme, central message, learning outcomes, and your personal rating.

Additional Instruction: Watch a biography or film based on the celebrated author Ruskin Bond and present a thoughtful review in an organised format.

4. VOCABULARY & GRAMMAR BOOSTER

Vocabulary Enhancement: Learn 80 advanced vocabulary words along with their meanings, synonyms, antonyms, and sentence usage.

Note: This task should be completed in the communication notebook.

Grammar Practice: Revise important grammar topics such as Tenses, Modals, and Reported Speech thoroughly.

Practice Work: Practice at least 15 worksheets regularly and complete them neatly in the fair notebook.

5. ART INTEGRATED PROJECT

Languages and Identity

Sikkim is home to diverse communities such as Lepcha, Bhutia, and Nepali people.

How do different languages and cultures contribute to the richness of Sikkimese literature?

Include examples of folk songs, sayings, or literary works.
NOTE: Do all this in project file.

हिंदी

1. कल्पना कीजिए कि आप सिक्किम घूमने गए हैं।
अपनी 3 दिन की यात्रा डायरी लिखिए जिसमें शामिल हो —

प्राकृतिक दृश्य

खान-पान

पहनावा

प्रसिद्ध स्थान

लोगों की भाषा और संस्कृति

साथ में चित्र भी लगाइए

2. विज्ञापन निर्माण गतिविधि

कल्पना कीजिए कि आपने एक अनोखा उत्पाद बनाया है, जैसे —

होमवर्क करने वाला चश्मा

नींद भगाने वाली टॉफी

परीक्षा में याद दिलाने वाला पंखा

उसका आकर्षक विज्ञापन तैयार कीजिए जिसमें —

स्लोगन

चित्र

विशेषताएँ

मूल्य

संपर्क विवरण

दिए जाएँ।

3. “घर का न्यूज़ चैनल” परियोजना

अपने परिवार की किसी छोटी घटना को समाचार बनाकर लिखिए।

उदाहरण:

रसोई में गैस खत्म होने की बड़ी खबर

भाई द्वारा रिमोट कब्जाने का विवाद

माँ की “सफाई अभियान” चेतावनी

समाचार में —

एंकर

रिपोर्टर

परिवार के सदस्यों के संवाद

शामिल कीजिए।

4. हिंदी कविता अध्ययन गतिविधि

हिंदी कविता जगत के प्रमुख कवि गोपालदास नीरज अथवा कुमार विश्वास की कविताएँ पढ़िए।

किसी भी दो कविताओं को सुंदर लिखावट में लिखिए।

उन कविताओं से आपको क्या सीख मिली, लगभग 100 शब्दों में लिखिए।

5. “योग – स्वस्थ जीवन का आधार” गतिविधि

21 जून को मनाए जाने वाले अंतरराष्ट्रीय योग दिवस के महत्व को ध्यान में रखते हुए निम्न कार्य कीजिए —

योग के महत्व पर 150 शब्दों का अनुच्छेद लिखिए।

प्रतिदिन किए जाने वाले किसी 5योगासन के नाम तथा उनके लाभ लिखिए।

चाहें तो किसी एक योगासन का चित्र भी बनाइए।

संकेत:

योग से शरीर स्वस्थ, मन शांत और एकाग्रता बढ़ती है।

MATHEMATICS

1. Create Your Own “Class X Maths Dictionary”

Prepare a creative Maths Dictionary using at least **20 Mathematical terms** from the Class X NCERT syllabus.

For each term, write:

1. Meaning/Definition in simple words
2. Formula or diagram (if applicable)
3. One real-life example or sentence
4. Decorate the page creatively with colours, symbols, or illustrations

Example Format

Word	Meaning	Real-life Sentence
Algorithm	A step-by-step method to solve a problem	“Following traffic rules is like an algorithm because every step must be followed in order.”
Probability	Chance of an event happening and formula	“There is a high probability of rain during monsoon.”

2. Art Integrated Maths Project

Theme: Sikkim

“Maths Expedition to Sikkim”

Objective:

Explore the beauty of Sikkim while discovering how Mathematics is used in tourism, transport, construction, weather, nature, budgeting, and daily life.

Tourism Data Analysis

Sikkim attracts thousands of tourists every year. Collect information related to tourism, rainfall, population, literacy rate, forest area, or temperature of the state and answer the following questions:

i. Represent the collected data using:

- ◆ Bar Graph
- ◆ Pie Chart
- ◆ Line Graph / Histogram

ii Presentation Idea:

Design graphs using:

- Mountain themes
- ◆ Orchid borders
- ◆ Prayer flags
- ◆ Forest and waterfall backgrounds
- ◆ Ropeway or monastery designs

Use blue, green, and white shades to represent the natural beauty of Sikkim.

3. ✨ Refresh • Revise • Reinforce

Strengthen your mathematical foundation by revising the completed syllabus and attempting the following practice questions neatly in your Assignment Register and support your answers with proper mathematical steps, diagrams, graphs and explanations wherever required.

1. State the Fundamental Theorem of Arithmetic.
2. Write a rational number between $\sqrt{5}$ and 3.

3. Write whether $(2\sqrt{45}+3\sqrt{20}) / 2\sqrt{5}$ on simplification gives a rational or an irrational number.
4. If 3 is the least prime factor of number a and 7 is the least prime factor of number b then find the least prime factor of (a+ b).
5. What is the HCF of the smallest composite number and the smallest prime number?
6. All the rational and irrational numbers together form _____ numbers.
7. Prove that $(2+\sqrt{3})$ is an irrational number.
8. Find the smallest number which when increased by 17 is exactly divisible by both 520 and 468.
9. What is the smallest number that, when divided by 35, 56 and 91 leaves a remainder 7 in each case?
10. Find the greatest number of 6 digits exactly divisible by 24, 15 and 36.
11. Is the following statement True or False? Justify your answer.
If the zeroes of a quadratic polynomial $ax^2 + bx + c$ are both negative, then a, b and c all have the same sign.
12. Find the zeroes of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$.
13. How many zeros does the polynomial $(x - 3)^2 - 4$ can have? Also, find its zeroes.
14. Find the quadratic polynomial whose zeroes are -2 and -5. Verify the relationship between zeroes and coefficients of the polynomial.
15. If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - p(x + 1) - c$, show that :
 $(\alpha + 1)(\beta + 1) = 1 - c$.
16. Solve the following pair of linear equations graphically: $4x - 5y - 20 = 0$; $3x + 5y - 15 = 0$
Determine the vertices of the triangle formed by the lines representing the above equation and y-axis.
17. Determine, graphically, the vertices of the triangle formed by the lines $5x - y = 5$, $x + 2y = 1$ and $6x + y = 17$.
18. Solve for x and y: $217x + 131y = 913$
 $131x + 217y = 827$
19. If $14x + 15y = 63$ and $15x + 14y = 53$, then find the value of $x + y$.
20. Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn from this box. Find the probability that the number on the card is:
 - i. an even number
 - ii. a number less than 14
 - iii. a number which is a perfect square
 - iv. a prime number less than 20.
21. Two dice are thrown simultaneously. What is the probability that
 - i. 5 will not come up on either of them?
 - ii. 5 will come up on at least once?
 - iii. 5 will come up at both dice?

4. Assertion–Reasoning Challenge

Carefully read the following Assertion (A) and Reason (R) based questions from the chapters completed so far and choose the correct option in each case:

Options:

- (a) Both **Assertion (A)** and **Reason (R)** are true, and Reason (R) is the correct explanation of Assertion (A).
- (b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
- (c) Assertion (A) is true, but Reason (R) is false.
- (d) Assertion (A) is false, but Reason (R) is true.

1 Assertion (A): The number 5^n cannot end with the digit 0, where n is a natural number.

Reason (R): Prime factorisation of 5 has only two factors, 1 and 5..

2 Assertion (A): The HCF of two numbers is 5 and their product is 150. Then their LCM is 40.

Reason (R): For any two positive integers a and b, $HCF(a, b) \times LCM(a, b) = a \times b$

3. Assertion(A): the graph of linear polynomial intersect the x-axis at point

Reason(R): for polynomial $P(x)$ of degree n the graph of $y=P(x)$ intersect x-axis at most points.

4. Assertion (A): The pairs of equations $x+2y-5 = 0$ and $-4x-8y+20=0$ have infinitely many solution.

Reason(R): if $a_1/a_2 = b_1/b_2 = c_1/c_2$ then the pair of equations has infinitely many solutions.

5. Assertion (A): Three coins are tossed simultaneously. The probability of getting all heads is $1/8$.

Reason(R): The chance of throwing 5 with an ordinary die is $1/6$.

5. CASE STUDY BASED QUESTIONS

Strengthen your conceptual understanding by attempting the following case study based questions from the completed chapters.

Case study :1

A test consists of 'True' or 'False' questions. One mark is awarded for every correct answer while $\frac{1}{4}$ mark is deducted for every wrong answer. A student knew answers to some of the questions. Rest of the questions he attempted by guessing. He answered 120 questions and got 90 marks.

1. If answer to all questions he attempted by guessing were wrong, then how many questions did he answer correctly?
2. How many questions did he guess?
3. If answer to all questions he attempted by guessing were wrong and answered 80 correctly, then how many marks he got?
4. If answer to all questions he attempted by guessing were wrong, then how many questions answered correctly to score 95 marks?

Case study : 2

The below picture are few natural examples of parabolic shape which is represented by a quadratic polynomial. A parabolic arch is an arch in the shape of a parabola. In structures, their curve represents an efficient method of load, and so can be found in bridges and in architecture in a variety of forms.



1. In the standard form of quadratic polynomial, a , b and c are -----
2. The maximum number of zeroes of the quadratic polynomial are _____.
3. If α and $\frac{1}{\alpha}$ are the zeroes of the quadratic polynomial $2x^2 - x + 8k$, then k is _____.
4. If the sum of the roots is $-p$ and product of the roots is $\frac{-1}{p}$ then the quadratic polynomial is _____

SCIENCE

1. On the occasion of World Environment Day, create a "Best Out of Waste" eco-friendly craft or model using waste materials available at home. Write 5–6 lines explaining how your creation

helps in reducing waste and protecting the environment. You may also decorate it with slogans or environmental messages.

2. Prepare 50 board-oriented MCQs/assertion-reason/case-based questions from the chapters along with answers in a creative format.

3. Prepare any one creative working model/project using eco-friendly or waste material:

- a) Water Purification Model
- b) Electroplating Demonstration Model
- c) Neuron Structure Model
- d) Solar Energy

4. Design an attractive chart or mind map on any one topic:

- a) Nutrition in Human Being
- b) Acidic /Basic Nature of substances
- c) Human Eye and Camera
- d) Magnetic Effects of

5. Assignment -Light – Reflection and Refraction

Answer the following questions:

1. Define reflection of light.
2. State the laws of reflection.
3. Differentiate between real image and virtual image.
4. What is the principal focus of a mirror?
5. Write two uses of concave mirrors.
6. Why does a convex mirror provide a wider field of view?
7. Define refraction of light.
8. What happens when light travels from air to water?
9. Draw ray diagrams for:
 - i) Convex lens
 - ii) Concave mirror

SOCIAL SCIENCE

I. "WORLD ENVIRONMENT DAY SPECIAL EDITION"

Prepare a newspaper on A3 size sheets covering the following:

1. History and significance of World Environment Day.
2. Major environmental issues in India.
3. Effects of climate change on human life.
4. Recent environmental campaigns and government initiatives.
5. Interview section - "What students can do to save the environment."
6. Eco-friendly advertisements and slogans.

Include:

Headlines

Pictures

Editorial section

Awareness article

Crossword or puzzle related to environment

II. EUROPE NATIONALISM COMIC STRIP

Create a comic strip showing:

Giuseppe Mazzini spreading nationalism

Unification of Germany

The role of Otto von Bismarck

The making of Italy.

III. COMPARATIVE CHART

Prepare a comparative chart on:

“Belgium and Sri Lanka Models of Power Sharing”

Include:

Language groups

Government policies

Power sharing arrangements

Outcomes

Use colours, pictures, and symbols creatively.

IV. CONSUMER AWARENESS PROJECT

Prepare a project on Consumer Rights including:

- Meaning of consumer
- Consumer rights
- Consumer responsibilities
- Consumer Protection Act
- ISI, AGMARK and Hallmark symbols
- Role of consumer courts

V. ART INTEGRATED PROJECT

Compare land use, water conservation, or natural resources in Delhi and Sikkim through maps, collages, and data visualization.

VI. ASSIGNMENT (On A 4 sheets)

History

1. Define the following terms in 30–40 words each:

Nation-state

Liberalism

Conservatism

Suffrage

Romanticism

2. Prepare a timeline (1789–1871) showing important events related to nationalism in Europe.

3. Map Work: Mark the following places on the map of India:

Champaran Kheda Ahmedabad

Amritsar

Dandi Chauri Chaura

Geography:

1. Define:

Resource

Sustainable Development

Land Degradation

Soil Erosion

2. Answer the following: (60–70 words)

Why are forests important?

What are biodiversity hotspots?

Explain deforestation and its effects.

What are endangered species?

Pol Science

On an outline political map of India:

i. Mark any five states formed on linguistic basis.

ii. Mark states with bilingual population (any two).

- iii. Mark the states having Panchayati Raj institutions.
- iv. How does power sharing help in maintaining political stability?
- v. Why is federalism considered the best system for a diverse country like India?
- vi. Do caste-based inequalities still exist in India? Explain with examples.
- vii. How can youth promote gender equality in society?

INFORMATION TECHNOLOGY

1. Digital Poster Design

Create a digital poster using Microsoft PowerPoint or Canva on any one topic:

- Cyber Safety
- Save Environment
- Digital India
- Importance of Cleanliness

OR

Presentation Challenge

Prepare a slideshow presentation using Microsoft PowerPoint on:

- Types of Communication
- Internet Services
- Role of Technology in Education

2. Learn MCQ of Unit 1(Part A) and (Part B).

3. Blog Writing Task

Write a blog (can be typed or handwritten) on:

- Importance of Digital Literacy
- Role of Internet in Daily Life
- Advantages and Disadvantages of Social Media

4. Prepare a resume using proper format.

5. Make a Portfolio on topic “**Communication skills**” (it will be a part of internal assessment).