

ENGLISH HOLIDAYS HOMEWORK
CLASS IX 2025-26

1. ART INTEGRATION PROJECT

Make a PowerPoint presentation (in groups of 4-5 students and 5 - 10 slides) on the endemic species of flora/fauna of Andaman and Nicobar/ Lakshadweep Islands. Choose 2 specific species of flora/ fauna and depict the challenges they face in the face of environmental degradation and explore the themes of conservation and sustainability. (One Hard copy for each group to be submitted)

2. WRITING SKILLS (TO BE DONE IN LANGUAGE NOTEBOOK)

A .Imagine you have participated in an adventurous activity and share your experience with your friend. Create the dialogue in not more than 100 words describing your thrilling experience .

B. Draft a notice for the school notice board informing the students about a workshop on Cyber Safety to be conducted in your school. You are Rashmi / Rahul of City Public School, Delhi.

C. After a thrilling trip to Havelock Island in Andaman, you're eager to share your experiences with your best friend. Include discussions about snorkeling at Elephant Beach, the stunning sunrise at Radhanagar Beach, and the eclectic local cuisine
Write the letter about the same in 150 words.

3. INTEGRATED GRAMMAR (TO BE DONE IN LANGUAGE NOTEBOOK)

A. Complete Integrated Grammar Practice Unit 1- Unit 3 of your Workbook.

B. Read the conversations and complete the passage given below the conversations .

1.

Ranbir: Where is my car? I remember parking it here.

Policeman: The car has been towed away as you parked it in the 'No Parking Area'.

Ranbir: Sir, can I be excused this time?

Policeman: I hope you'll remember the lesson you learnt today.

Ranbir asked the policeman standing there where his car was for he remembered parking it there. The policeman replied (a) _____ it in the 'No Parking Area'. Ranbir requested the policeman (b) _____

The policeman then reminded him that (c) _____

2.

Detective: What were you doing yesterday between 10:00-10:30 pm?

Bharat: I was walking my dog in the park.

Detective: Did you meet anyone in the park?

Bharat: I saw two men sitting on a bench.

The detective asked Bharat (a) _____

between 10:00-10:30 pm. Bharat replied that (b)_____. The detective then asked Bharat (c)_____, to which Bharat replied that he had seen two men sitting on a bench.

3.

Customer: Can I have a small bottle of tomato sauce?

Shopkeeper: Sorry, I have only big bottles.

Customer: When will it be available?

Shopkeeper: I can give it to you tomorrow.

Customer: Thank you, then I will take it tomorrow.

The customer asked the shopkeeper (a)_____. The shopkeeper said that he only had big bottles of tomato sauce. The customer wanted to know (b)_____. The shopkeeper said that he could give it to him the next day. The customer thanked him and said that (c)_____.

4. Rohan : Let's go out for dinner today.

Riya : Which restaurant would you like to go to?

Rohan: I would like to go to Rama's because I like the Chinese food there.

Riya : I am not in the mood for eating Chinese. Today let's go out to some South Indian restaurant.

Rohan suggested to Riya that (a)_____. Riya asked Rohan (b)_____.

Rohan replied (c) _____the Chinese food there. To this Riya said that she was not in a mood for eating Chinese food and further suggested (d) _____.

5.

Patient : Can I have an appointment with the doctor this evening? I am very sick.

Receptionist : I'm sorry. There's a long waiting list. You will have to wait for at least two weeks.

Patient : But by then I could be dead.

Receptionist : No problem. If your wife informs me, I can cancel the appointment.

A patient went to his doctor's clinic and asked the receptionist (a) _____. The receptionist apologised, saying that there was a long waiting list. She further added that (b) _____.

When the patient said that he could be dead by then, the receptionist calmly replied that (c) _____the appointment.

4. GRAPHIC ORGANIZER

Read the story 'Keeping It From Harold' from your Literature book and then make the following graphic organizer for the story. (To be done in Literature notebook. You may take a print out or draw the graphic organizer to represent the story)

Name: _____

Date: ____/____/____

Story Elements

(Identify and learn the elements of a book or story)

Title: _____

Setting:

(The location and time period the story takes place)

Characters:

(Character names & roles in the story)

Problem:

(Describe the problem in the story)

Solution:

(Describe how the problem is solved)

Beginning:

(How the first part of the story starts)

Middle:

(Contains the bulk of the story)

End:

(How the story comes to an end)

Holiday homework

Food production

Class IX

1. Draw a chart on department of hotel industry and make presentation.
2. Make a chart and presentation on job offered by each allied area.

DAV PUBLIC SCHOOL, SRESHTHA VIHAR

FRENCH CLASS IX

Holidays Homework

- 1) Make vocabulary tree of chapters 1-8 in your French register.
- 2) Learn one French song and record it .
- 3) Do written expression of chapter 1,2 from your exercise book in your French register.
- 4) Write a post card to your friend from sikkim with pictures of some touristic places and famous food of sikkim.

ग्रीष्मकालीन अवकाश कार्य 2025-26

विषय हिंदी

कक्षा- नौवीं

प्रश्न 1 यदि आप लेखक यशपाल जी के स्थान पर होते तो बाज़ार में रोती हुई भगवाना की मां और आप के बीच जो बातचीत होती उसे संवाद शैली में लिखिए।

प्रश्न 2. वर्तमान समय में, भारत की अनेक महिलाएं हैं जो देश के विकास में एवं सुरक्षा में महत्वपूर्ण भूमिका निभा रही हैं। उन महिलाओं में किन्हीं पांच महिलाओं के विषय में जानकारी एकत्र करके चित्र सहित A4 शीट कार्य कीजिए।

प्रश्न 3. प्रश्न बैंक निर्माण -

पाठ्य पुस्तक (स्पर्श भाग-1) में से पाठ-1,2,3 में से दस -दस बहुवैकल्पिक प्रश्नों का निर्माण करके उत्तर सहित A4 पर लिखिए।

प्रश्न 4. दैनिक हिंदी समाचार पत्र के संपादकीय पृष्ठ से किसी महत्वपूर्ण लेख को प्रतिदिन पढ़ें एवं उनमें से किन्हीं पांच लेखों का चुनाव करके ,उन पर आधारित बहुवैकल्पिक एवं लघु प्रश्नों का निर्माण करें एवं उत्तर लिखें। (अपठित गद्यांश)

प्रश्न 5. (क) सिक्किम की सांस्कृतिक धरोहर के विषय में जानकारी एकत्रित करके चित्र सहित A4 शीट पर कार्य कीजिए तथा सिक्किम की सांस्कृतिक धरोहर पर आधारित एक कविता को भी ए4 शीट पर लिखिए। (Section -A,B,C के विद्यार्थी करें)

(ख) अंडमान निकोबार एवं लक्षद्वीप पर परियोजना कार्य - (section D,E,Fके विद्यार्थी करें)

(क) अंडमान निकोबार एवं लक्षद्वीप का प्राकृतिक सौंदर्य

(ख) ऐतिहासिक पृष्ठभूमि

(ग)) प्रचलित लोक कथाएं

(घ) साहित्य एवं साहित्यकार

DAV PUBLIC SCHOOL, SRESHTHA VIHAR, DELHI
HOLIDAYS HOME TASK 2025-26
MATHEMATICS
CLASS - IX

Mathematics Project (Group Activity)

Students are required to form groups of **5 to 6 members** to complete a **mathematics-based project**. Each group must choose **any three ideas** from the list below and complete them creatively and thoughtfully.

Project Ideas (Choose any three):

1. 3D Paper Models:

Create paper models of huts or boats using nets of solids (geometry-based structures).

2. Origami – Sea Animals:

Craft sea animals using geometric paper folding techniques (origami).

3. Fibonacci Sequence & Golden Ratio in Nature:

Explore and represent the use of the Fibonacci sequence and Golden Ratio in designing fish scales, shells, snails, or flowers.

4. Design a Board Game:

Create an educational board game incorporating mathematical concepts.

5. Working Model (Current or previous classes Topics):

Build a working model based on any one topic from Class 8th or 9th mathematics, such as:

- Polynomials
- Real numbers
- Statistics
- Quadrilaterals
- Surface Areas and Volumes
- Coordinate Geometry
- Linear Equations in 2 variables

6. Mandala Art:

Create Mandala art using sea-themed geometry, such as sea shell or ocean-inspired Mandalas. Mandala art, particularly in the context of Sikkim, is deeply intertwined with Buddhist traditions and the art of Thangka painting

7. Data Collection and Graphical Representation:

Collect tourist data from Andaman & Nicobar, Lakshadweep, or Sikkim for the last five years and present it using appropriate graphs and charts.

Note: "Please ensure that all following assignments of chapters are done neatly and carefully in your fair Mathematics register."

Creativity, accuracy, and presentation will be part of the assessment criteria.

Do these questions in your classwork notebook:

Q1. Find two different irrational numbers between each of the following:

(i) 0.1 and 0.12

(ii) $\frac{3}{11}$ and $\frac{5}{7}$

(iii) $\sqrt{2}$ and $\sqrt{3}$

Q2. Express each of the following in the form $\frac{p}{q}$.

(i) $3.\overline{14}$

(ii) $0.\overline{324}$

(iii) $0.5\overline{4}$

(iv) $10.03\overline{6}$

Q3. If $a = \frac{3-\sqrt{5}}{3+\sqrt{5}}$ and $b = \frac{3+\sqrt{5}}{3-\sqrt{5}}$, find $a^2 - b^2$.

Q4. If $a = \frac{3+\sqrt{7}}{2}$, then find the value of $a^2 + \frac{1}{a^2}$.

Q5. Simplify: $\sqrt{2}(\sqrt{6} - \sqrt{8}) + \sqrt{3}(\sqrt{27} - \sqrt{6})$.

Q6. Evaluate: $\frac{\sqrt{5}+\sqrt{2}}{\sqrt{5}-\sqrt{2}}$, given that $\sqrt{10} = 3.162$.

Q7. Simplify: $\sqrt{125} - 4\sqrt{6} + \sqrt{294} - 2\sqrt{\frac{1}{6}}$.

Q8. For what value of m, is the polynomial $x^3 - 2mx^2 + 16$ divisible by $(x + 2)$?

Q9. If $f(x) = x^4 - 2x^3 + 3x^2 - ax + b$ is divided by $(x - 1)$ and $(x + 1)$, it leaves the remainders 5 and 19 respectively. Find the remainder when $f(x)$ is divided by $(x - 2)$.

Q10. Let R_1 and R_2 be the remainders, when the polynomials $x^3 - 2x^2 - 5ax - 7$ and $x^3 - ax^2 - 12x + 6$ are divided by $(x + 1)$ and $(x - 2)$ respectively. If $2R_1 + R_2 = 6$, find the value of a.

Q11. The volume of a cuboid is given by a polynomial $p(x) = 8x^3 + 12x^2 - 2x - 3$. Find possible expressions for dimensions of the cuboid. Verify the result by taking $x = 5$ units.

Q12. Verify that $(x - 1)$, $(x - 2)$ and $(2x + 1)$ are factors of the polynomial $2x^3 - 5x^2 + x + 2$.

Q13. Without actual division, prove that $2x^4 - 8x^3 + 3x^2 + 12x - 9$ is exactly divisible by $x^2 - 4x + 3$.

Q14. Find the value of 'p', if $(x-p)$ is a factor of $x^5 - p^2x^3 + 2x + p + 3$. Hence, factorise $x^2 + 4px + 3$.

Q15. If $p(x) = x^3 - 4x^2 + x + 6$, then show that $p(3) = 0$ and hence factorise $p(x)$.

Q16. Factorise :

- I. $x^2 + 14x + 48$
- II. $x^2 + x - 12$
- III. $x^2 - 30x + 216$
- IV. $x^2 - 32x - 105$
- V. $6x^2 + 17x + 12$
- VI. $2x^2 - 7x - 39$
- VII. $x^2 + \frac{1}{6}x - \frac{1}{6}$
- VIII. $4\sqrt{3}x^2 + 5x - 2\sqrt{3}$
- IX. $16\sqrt{5}x^2 - 50x + 5\sqrt{5}$
- X. $2x^2 - \frac{6}{6}x + \frac{1}{12}$

Q17. Write $3y = 2x$ as a linear equation of the form $ax + by + c = 0$. Also, write the values of a, b, c. Give two solutions for the equation. How many more solutions can you find?

Q18. Let y varies directly as x. If $y = 12$ when $x = 4$, then write a linear equation. What is the value of y when $x = 5$?

Q19. Draw the graph of $x + y = 3$ and $2x + 2y = 8$ on the same axes. What does the graph of these lines represent?

Q20. Draw the graph of $\frac{x}{3} + \frac{y}{5} = 1$. Find the points where the line meets the axes.

अवकाश हेतू गृहकार्यम् 2025-26

कक्षा नवमी विषय संस्कृत

1. शब्द रूप तत्, किम्(त्रिषु लिंगेषु) लिखन्तु स्मरन्तु च।
2. धातु रूप पंचलकारेषु भू, नम्, गम्, अस्, प्रच्छ, जा, क्षाल्(क्षालयति), नी धातु रूपाणि च उत्तरपुस्तिकायाम् लिखत।
3. मणिका पाठ 1-5 तक कठिनशब्दार्थानाम् अर्थम् हिन्दीभाषायां च लिखत।
4. विषय गतिविधि -संस्कृते पंच प्रहेलिका लिखित्वा तेषाम् उत्तराणि चित्रनिर्माणम् कृत्वा कुरुत। (A-4 size sheet)
5. गतिविधि- सिक्किम राज्यस्य भोजनं वेशभूषा के के सन्ति? चित्रं रचयित्वा तस्य विषये संस्कृते लिखत।(A-4 size sheet)
6. मणिका पाठ 1-3 मणिकापुस्तिका उत्तरपुस्तिकायाम् च कार्यं पूरयत।
7. उत्तर पुस्तिकायां पंचचित्राणि निर्माय पंच-पंच वाक्याणि संस्कृते लिखत।
8. मणिका पाठ्यपुस्तके पाठः 1-3 (दश)प्रश्ननिर्माणं कुरुत।

Science Holiday Homework (2025-26)

Class IX

TASK A (RESPONSIBLE INNOVATION- MODEL MAKING)

Instructions for Students:

Dear Students,

As responsible citizens and future innovators, this holiday homework is designed to encourage your creativity, scientific thinking, and awareness of real-world problems. Here are some examples of problems that can be addressed through science model projects:

Environmental Issues

Engineering & Technology

Real-World Challenges

In order to give a line of direction to your thinking, following **science projects have been suggested** but at the same time **you are being given a free hand to choose any topic other than these on which you can design a working model.**

You will present your project in the form of a **working model, concept model, or simulation** and submit a **short project report (3–5 pages)** along with it.

Instructions for Group Model-Making/ Project (Group of 3- 5 Students)

1. **Form Your Group of 3- 5 students.** Choose a group leader to coordinate tasks and communication.
2. **Select a Topic/Theme:** which is relevant to the theme or select from the given list.
3. **Divide the Work:** Assign specific role to each member of the group and ensure equal participation
4. **Materials:** Use eco-friendly or recycled materials wherever possible.
5. **Prepare an Explanation:** Be ready to explain the model's concept and construction.
6. **Presentation:** Present the model as a group. Speak clearly and confidently. Use visual aids or labels if necessary.
7. **Submission:** Submit the model by the deadline.
8. **Assessment Criteria:**
 - Creativity and innovation
 - Accuracy and relevance
 - Presentation and explanation

Allocation of projects:

Roll no 1-17-Physics

Roll no 18-34- Chemistry

Rollno 35 onwards- Biology

Suggested Projects/Models (PHYSICS)

- **Smart Traffic Management System Using Sensors and AI**
- **Solar-Powered Water Purifier**
- **Design a smart wearable prototype with sensors or a simulated version which can monitor Air Quality Index (AQI) and gives alerts (via vibration/light) when pollution levels are harmful**
- **Electric Vehicle vs. Gasoline Car Model**
- **Insulation Efficiency Demonstration**
- **Hydroelectric Power Model**

- Here are some **chemistry project ideas**:

Environmental Chemistry

1. Water quality analysis
2. Air pollution monitoring
3. Soil contamination study

Green Chemistry

1. Biocatalytic Synthesis: Models that employ enzymes or microorganisms for catalyzing chemical reactions.

Renewable Energy Models

1. Solar-powered Synthesis: Models that utilize solar energy to drive chemical reactions.
2. Bio-based Energy Systems: Models that explore the use of biomass or biofuels as sustainable energy sources.

Waste Reduction Models

1. Closed-loop Systems: Models that demonstrate the recycling and reuse of materials, minimizing waste generation.
2. Biodegradable Materials: Models that showcase the development and use of biodegradable

Suggested projects / models (BIOLOGY)

1.Sustainable Agriculture Models (e.g., Agroecological Models): Combine biology and environmental science to design farming systems that mimic natural ecosystems and promote food security without harming the environment.

2. Carbon Cycle Model: Track the movement of carbon through the biosphere, atmosphere, oceans, and geosphere illustrating the impact of fossil fuel use, deforestation on climate sustainability.

3.Plastic degradation and bioplastics : Experiment or simulate how different types of plastic degrade under various environmental conditions ;include a bioplastic alternative

Project Report Format (3–5 pages):

Each group must prepare a brief project report with the following sections:

1. **Title of the Project**
2. **Problem Statement / Need for Innovation**
3. **Materials Used**
4. **Working Principle or Concept**
5. **Diagrams or Photographs of the Model**
6. **Conclusion (How your innovation helps society)**

Section A - Physics

TASK 1 (FOR SECTIONS A, B and C only)

ART INTEGRATED PROJECT (GROUP ACTIVITY)

Subject: Science (Physics)

Topic: Sound

Class: IX

Name of the Art: Performing Art

Instructions:

1. Each group will consist of 5 students.
2. Each student will prepare one sheet on any of the aspects mentioned below.
3. The final compiled project must be submitted in a creative format. Suggested formats include:
 - Foldable/ Table calendar/ Brochures/ Invitation cards

- **Reference Link:** <https://pin.it/6BgBOu1> Suggested Reading [Musical Instruments of Limbu in Sikkim – JournalCRA Article](#)

Evaluation Criteria:

- Presentation, Creativity of the work, Neatness and Timely submission

Project Theme:

Explore the various musical instruments of Sikkim and prepare a project covering the following key aspects:

1. Name of the Instrument (in the local language) with a hand-drawn picture.
2. Material used to make it, the scientific principle behind its working, and the part that vibrates to produce sound.
3. A PowerPoint presentation (PPT) including:
 - All the above details
 - A video of a local musician playing the instrument

4. A model of the instrument (working or non-working) using materials preferably similar to what locals in Sikkim use or alternatives like:
- Clay/ Strings/ Wood/ Cardboard

5. Scientific Analysis:

Provide your understanding of the pitch of the sound produced by the instrument (low or high), and relate it to frequency. Based on your observations, answer the following:

- (a) How does the increase in amplitude affect the loudness?
 - (b) How does a decrease in frequency affect the pitch of the sound?
 - (c) What is the frequency of a sound source that vibrates 600 times in 3 seconds?
-
-

TASK 1 (FOR SECTIONS D, E and F only)

ART INTEGRATED PROJECT (GROUP ACTIVITY)

TOPIC: SOUND

NAME OF THE ART: PERFORMING ART

INSTRUCTIONS:

1. There will be 5 students in a group.
2. Each student will prepare one sheet on any of the aspects mentioned below
3. Final compiled project has to be submitted by the group in a creative manner. Few suggestions are:

In the form of **foldable/ table calendar/brochures/invitation cards** etc.

Evaluation Criteria:

Presentation, Creativity of the work, Neatness of the work and Timely submission

PROJECT:

The Andaman and Nicobar Islands boast a rich folk music heritage, with each indigenous tribe having its distinct musical instruments. Delve into the enchanting world of local musical instruments from these islands and craft a comprehensive project covering the following key aspects:

1. Name and Image: Select one instrument and present its name in the local language along with a hand-drawn illustration.
2. Material and Principle: Detail the materials used in crafting the instrument, the underlying principle behind its working, and identify the component responsible for sound production or vibration.

3. Occasions and Significance: Explore the occasions traditionally accompanied by these instruments, elucidating how they infuse rhythm, melody, and distinctive sounds to elevate the atmosphere and create memorable experiences.
4. Working Model: Construct a working model of any one of the musical instruments employing recyclable or readily available materials like clay, strings, wood, or cardboard. Emphasize sustainability and accessibility in your choice of materials.

Suggested link for your reference

[Folk musical instruments of Andaman and Nicobar island in ...](#)



7.

8. [Brainly.in](#)

9. <https://brainly.in> > CBSE BOARD X > Secondary School

TASK-2 ASSIGNMENT (To be Done in Class work Notebook)

1. What is the nature of distance-time graph for uniform and non-uniform motion of an object?
2. What can you say about the motion of an object if its speed-time graph is a straight line parallel to the time axis.
3. If velocity of a body changes regularly from u to v in time t , what is the average velocity of that object?
4. Name the physical quantities whose S.I. unit are a) m/s b) m/s^2

CASE BASED PARAGRAPH

Automobiles are fitted with a device that shows the distance travelled. Such a device is called an odometer. A car is driven from New Delhi to Mumbai, the difference between the final reading and the initial reading of the odometer is 1,550 km.

Suppose you have a road map with a scale of 1 cm representing 200 km. On this map, using the shortest line, distance between New Delhi and Mumbai is represented by 7 cm.

Read the above passage and answer the following questions:

- a) Find the magnitude of displacement between New Delhi and Mumbai with the help of this road map.
- b) What is more relevant to your journey, distance or displacement? Justify.
- c) If a car travels from New Delhi to Mumbai and then returns back to New Delhi, what is the distance covered and displacement covered for the complete journey.

Section B – Chemistry

TASK-1 (ACTIVITY-To be done on A-4 size sheets)

Perform an activity to show that gases are readily compressible and liquids are not by using a plastic syringe (25ml) **without needle** and record the activity on A4 size coloured sheets with suitable diagram and observation table.

FORMAT OF OBSERVATION TABLE

S. No.	NAME OF MATERIAL FILLED IN THE SYRINGE	INITIAL READING (ON THE SYRINGE)	FINAL READING (ON THE SYRINGE)
1.			
2.			
3.			
4.			
5.			

Task-2 (ASSIGNMENT-To be done in chemistry copy)

- Identify the substance which has least force of attraction between its particles:
1 Gold 2 Water 3. Honey 4. Air
- Assertion: Evaporation causes cooling
Reason: Evaporation is a surface phenomenon.
- State at least three differences between evaporation and boiling.
- Why shouldn't we wear synthetic clothes during summer season?
- State the differences between solids, liquids and gases in a tabular form.
- Draw a Cyclic figure to show inter-conversion of states and explain the following terms: fusion, vaporisation, condensation, solidification
- Analyse and explain why: At the melting point, even though heat is constantly supplied, the temperature does not rise till all the solid has changed into liquid.
- The boiling point of water is 100°C . Express this in SI Units.

Section C – Biology

Let us Explore: Ever wondered why do our fingers prune when immersed in water? What happens when salt is sprinkled over salad?



It is because of an amazing phenomenon of **osmosis**.

- *Read and explore more about it and identify day to day applications of osmosis.
- *Perform a simple experiment of osmosis using any item easily available in your home, there are ample things in your kitchen which can be used.
- * Shoot a video (1-2minutes) explaining your set up, observation and inference / Take pictures and make collage/Summarize your experiment in biology notebook.

II Cell Organelles Craft Challenge: Wear Your Cell!

Students will design and create a keychain, bracelet, or necklace featuring charms that represent various cell organelles, reinforcing their understanding of cell structure and function.

III Assignment (To be done in Homework Notebook)

Q1 Diagram based Question - Draw and label diagram of a plant cell and an animal cell, highlighting the differences and similarities between the two

Q2 What is my Role -

Make a tabular representation listing various cell organelles and describe their structure and functions.

Q3 Define the term cell and explain its significance as the basic structural and functional unit of life.

Q4 Describe the differences between prokaryotic and eukaryotic cells, providing examples of each.

Q5 Assertion Reason

I) Assertion: The cell membrane is a selectively permeable structure in the cell.

Reason: It regulates the movement of substances in and out of the cell.

II Assertion: Mitochondria are often referred to as the store house of the cell.

Reason: They are responsible for producing ATP, the primary energy currency of the cell, through cellular respiration.

III Assertion: When a animal cell is placed in a hypertonic solution, it gains water and undergoes plasmolysis.

Reason: In a hypertonic solution, the concentration of solutes outside the cell is higher than inside, causing water to move out of the cell.

Q6 MCQ

I Which of the following best describes osmosis?

- a) The movement of water molecules from a region of lower water concentration to a region of higher water concentration through a semi-permeable membrane.
- b) The movement of water molecules from a region of higher water concentration to a region of lower water concentration through a semi-permeable membrane.
- c) The movement of solute molecules from a region of lower concentration to a region of higher concentration through a semi-permeable membrane.
- d) The movement of solute molecules from a region of higher concentration to a region of lower concentration through a semi-permeable membrane.

II Which of the following statements about the cell wall is true?

- a) The cell wall is found in animal cells but not in plant cells.
- b) The cell wall is composed primarily of lipid and proteins.
- c) The cell wall provides structural support and protection to plant cells.
- d) The cell wall is selectively permeable, allowing the passage of various molecules in and out of the cell.

Q.7 If a cell's lysosomes burst open, what do you think would happen to the cell?

Q.8 How do all the organelles work together to keep the cell functioning smoothly?

Q.9 Give reason for the following

- a Mitochondria are called the "powerhouse of the cell."
- b Plant cells have a large central vacuole.
- c Lysosomes are called "suicide bags" of the cell.
- d Chloroplasts are found only in plant cells.
- e Cells with high energy demand (like muscle cells) have more mitochondria.

HOLIDAYS HOME WORK 2025–26

CLASS IX – SOCIAL SCIENCE

LEARNING OBJECTIVES:

1. Recall and summarize key concepts from all four Social Science subjects.
2. Create glossaries to enhance academic vocabulary.
3. Present biographical sketches using images and facts.
4. Read and label political and physical maps accurately.
5. Design posters, brochures, or newsletters on environmental and geographic topics.
6. Explore cultural diversity through collaborative research.
7. Apply disaster management concepts through projects.

I. Read, learn and revise the chapters of the first term examination.

II. Prepare chapter-wise glossary for the chapters mentioned below:

History:

1. The French Revolution
2. Socialism in Europe and the Russian Revolution

Political Science:

1. What is Democracy? Why Democracy?
2. Constitutional Design

Economics:

1. The Story of Village Palampur
2. People as Resource

Geography:

1. India – Size and Location
2. Physical Features of India
3. Drainage

Instructions:

- Make the glossary in the classwork registers of the respective subjects.
- Include minimum 10 terms from each chapter.
- In geography chapters, wherever possible, draw or paste relevant pictures.

III. Prepare a pictorial Bio-sketch on the following personalities from History chapters:

1. Louis XVI
2. Karl Marx

3. Vladimir Lenin
4. Robespierre
5. Rousseau
6. Montesquieu
7. Bhagat Singh
8. Dr. B.R. Ambedkar
9. Mahatma Gandhi
10. Nelson Mandela

Instructions:

1. Use A4 size sheets.
2. Each bio-sketch must be minimum 1 page.
3. Paste a picture of the personality.
4. Use authentic sources: textbooks or internet.

IV. MAP WORK – Prepare a map album

Geography:

Map Album- paste all the maps in the classwork copy

CHAPTER 1- India: size and location

India–States and Capitals

Tropic of Cancer, Standard Meridian (Location and Labeling)

Neighbouring Countries

CHAPTER 2- India physical features

- Mountain Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
- Mountain Peaks – K2, KanchanJunga, AnaiMudi
- Plateau - Deccan Plateau, Chota Nagpur Plateau, Malwa Plateau
- Coastal Plains - Konkan, Malabar, Coromandel & Northern Circar (Location and Labelling)

CHAPTER 3- Drainage

Drainage system Rivers:

- The Himalayan River Systems-The Indus, The Ganges, and The Sutlej
- The Peninsular Rivers-The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi
- Lakes: Wular, Pulicat, Sambhar, Chilika

History:

Chapter. : French Revolution: Major cities of France (France political map)

Chapter - Russian Revolution: USSR and its neighboring countries (Political map Europe)

Instructions:

Use your notebooks or a dedicated map album.

Label maps neatly and accurately.

V . Prepare a poster on water pollution.

Or

Prepare a newsletter/model of any one river system- The Indus system, The Ganga system, the Godavari system and the Krishna system.

Or

Write a brochure/ pamphlet on water conservation / original song on rivers.

(Note: Do it in a C.W. copy.)

Or

Photo album on major himalayan peaks, highest waterfall of India, gorge, meander, delta, confluence of a river, tributary , corals, and riverine Island.

VI. Ek Bharat Shreshtha Bharat Activity

Collaborating State / UT:

Sections A, B, C: Sikkim with Delhi

Sections D, E, F: Andaman and Nicobar Islands with Delhi

Activity: BROCHURE / FOLDABLE DESIGNING

Group Activity: Groups of 5 based on students' interests and multiple intelligences

Minimum 5 folds required

Topics to include:

1. Demography
2. Culture (Dance, Music, Food, Costume, Jewellery)
3. Ethnic Diversity
4. Political Setup
5. Government Schemes
6. Employment Opportunities
7. Reservation Policy

Instructions:

Use pictures, graphs, surveys, charts

Information must be authentic (books/internet)

Creativity and neatness will be assessed

VII . Subject Enrichment Activity

1. Project work on Disaster Management

Choose any one topic for the project.

- Earthquake management skills .
- Fire management skills
- Water management skills

General instructions:

- Information should be taken from sources like books, magazine or internet.
- The project should be of minimum 20 pages.
- The project should contain pie charts, bar graphs, pictures, survey etc.
- The Project Report should be handwritten or digital.
- The projects and models prepared should be made from eco-friendly products without incurring too much expenditure
- Should follow the following pattern
- Attractive cover page with title
- Certificate of authenticity
- Abstract (briefly explaining the objective of the project)
- Table of contents
- Introduction
- Main Content
- Results and discussion
- Summary/conclusions
- References • Appendices (if used)
- No writing to be done on left side and should be covered with relevant photos, diagrams or data tables
- Any data or fact should be presented with the source.
- Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report.
- Different forms of art may be integrated in the project work.

The distribution of marks over different rubrics relating to Project Work is as follows:

S. No.	Aspects	Marks
a	Content accuracy, originality and collaborative skills	2
b	Competencies exhibited and Presentation	2
c	Viva	1

This project will be assessed for 5 marks.

VII. Prepare a write up on Sarva Shiksha Abhiyan

(Roll No 1-25) National Health Mission (Roll no. 26 onwards) mention the features of this scheme

GENERAL INSTRUCTIONS:

- Information should be taken from the book or internet.
- Paste/ Draw the logo of the same.

Note: The above work should be done in any creative form.