



Holiday Homework



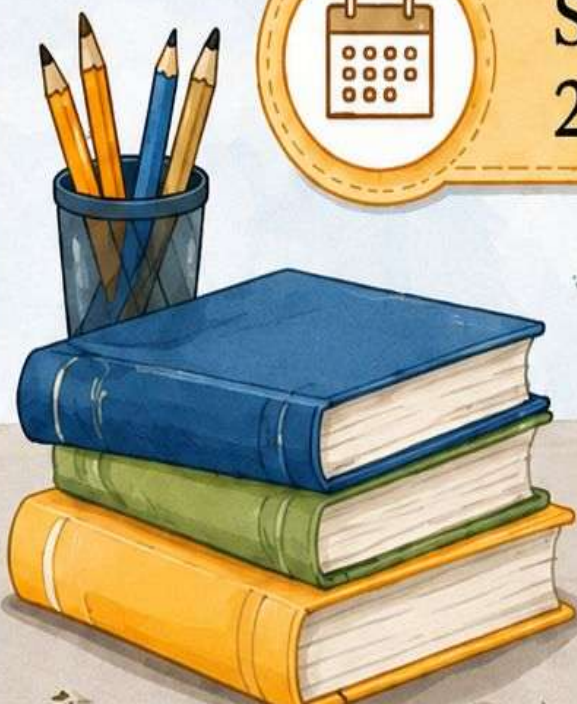
Vivekanand
Public School



Class IX



Session
2026 - 2027



Dear Students,

As you enjoy your holidays, it is important to stay connected with your studies and use this time productively. The holiday homework is designed to reinforce the concepts taught so far and to encourage creativity and independent thinking. Please follow the instructions carefully:

General Guidelines:

1. Submission Date: All homework must be submitted on **06July2026**.
2. Presentation:
 - Work should be neat, legible, and well-organized.
 - Use A4 size sheets (or as directed by each subject teacher).
 - Maintain a proper index and cover page for each subject.
3. Original Work:
 - Avoid copying from the internet or peers.
 - Plagiarized content will not be accepted.
 - Projects and assignments should reflect your own understanding and creativity.
4. Revise the PA 1 syllabus of all the subjects.

Wishing you a restful and productive holiday!

Make the most of your time and come back refreshed and prepared.

ENGLISH

The "Poetic Deep Dive" Project

Dear students

This break, we are diving deep into the ocean of literature. Your mission is to explore the rhythmic currents of poetry by creating a set of Poetic Device Flash Cards which should be visually stunning, informative, and anchored in an oceanic theme.

Q1.* 🌀 The Task*

Create five creative flash cards, each focusing on a different poetic device.

Use sturdy cardstock or recycled cardboard (approx. 5x7 inches).

🎨 *Theme & Design:* "Under the Sea"

To keep our collection cohesive, every card must feature an Ocean Theme.

Motifs: Think dolphins, ancient whales, coral reefs, shipwrecks, or mysterious deep-sea creatures.

Materials: Use watercolors, textures (like sand or glitter), and vibrant blues/greens to make your cards pop.

📄 *Card Requirements*

Each of your 5 cards must include the following four elements:

The Term : The name of the poetic device (e.g., Personification).

The Definition : A clear, concise explanation in your own words.

The Anchor Example: One original or famous poetic line featuring the device.

Visual Representation : A hand-drawn illustration that connects the poetic device to your ocean theme.

Example

Alliteration

Example: "The silver shark slithered silently."

Visual: A sleek shark moving through bubbles shaped like the letter 'S'.

Q2. Project: The "Class IX Courier" Mini-Magazine*

Objective: To master formal writing formats while showcasing creative layout skills.

📁 *Magazine Structure* (4–6 Pages)

1. The Cover Page: A bold title (e.g., The Scholastic Times, Youth Echo, or The Insight).

2)Letter to the Editor:

Write a letter to the editor of the newspaper complaining about a local issue, such as "The Need for More Green Spaces in Our City" or "Concerns over Increasing Screen Time among Teens."

3) ***Create a formal notice*** informing students about an upcoming "Inter-House Literary Fest" during the school reopening week. Include Date, Time, Venue, and Last Date for Registration.

4) ***Write an article on the topic:***

"Social Media: A Boon or a Bane for Education?"

Include: A catchy heading, a byline (your name), and a clear introduction, body, and conclusion.

5. The Review Section

Write a review of a book you read or a documentary you watched over the holidays. Focus on the theme, the most impactful scene/chapter, and your recommendation rating.

6. Puzzles & Humour

The "Laugh-Out-Loud" Corner: A comic strip about "The First Day Back to School" or a crossword puzzle using 10 new vocabulary words you learned during the break.

Q3. Do the assignments and keep it neatly in the portfolio.

ASSIGNMENTS LINK

<https://drive.google.com/file/d/1VmKri6Eg-vH7YbcheTxZ4LVPiGg54rBd/view?usp=drivesdk>

HINDI

1. कॉमिक स्ट्रिप : दो बैलों की कथा के क्लाइमेक्स को 6बॉक्स की कॉमिक में हिंदी संवाद के साथ बनाएं

2. जल संरक्षण या प्लास्टिक मुक्त भारत विषय पर A3 साइज शीट पर एक सुंदर रंगीन विज्ञापन तैयार कीजिए

3. कक्षा में करवाए गए अनौपचारिक पत्र, अनुच्छेद लेखन, संवाद लेखन व चित्र वर्णन का एक पोर्टफोलियो तैयार करें। प्रथम पृष्ठ पर अनुक्रमणिका लगाएं व कवर पेज कवियों व लेखकों के चित्रों द्वारा सुसज्जित करें।

4. अपने पाठ्यक्रम से लेखक प्रेमचंद पर एक प्रोजेक्ट तैयार करें।

प्रथम पृष्ठ पर अपना नाम कक्षा विषय और शिक्षक का नाम हो।

प्रोजेक्ट में पाठ से संबंधित चित्र, लेखक का जन्म स्थान, प्रमुख रचनाएं, साहित्य में स्थान और समाज पर उनका प्रभाव बताएं।

इस पाठ को लिखने का उद्देश्य एवं उसे प्राप्त शिक्षा भी बताएं।

ASSIGNMENTS LINK

<https://drive.google.com/file/d/1dONKUS45jyXXjLkmNGimXp7LF1t3x4MV/view?usp=drivesdk>

SANSKRIT

प्रश्न 1. संस्कृत स्लोगन लेखनम् (Slogan Writing)

"Mission Mass" सम्बन्धेन पंच संस्कृत-सूक्तयः वा नारे लिखत।

उदाहरणः -

- स्वच्छता सेवा च धर्मः।
- विज्ञानं सेवा च मित्रे भवतः।
- शिक्षां यच्छ, जीवनं रक्ष।

प्रश्न 2. पर्यावरण - वृक्ष हमारे जीवन का आधार। (3 D MODEL)

प्रश्न 3. Sanskrit Grammar Tree

1) एक बड़ा पेड़ बनाइए: (roll no. 1-7)

- जड़ों में – वर्णमाला
- शाखाओं में – संधि, समास, लकार
- पत्तियों में – उदाहरण

2) Wheel Project (घूमने वाला मॉडल) (Roll no 8 - 14)

- कार्डबोर्ड से wheel बनाइए:
- ऊपर प्रश्न
- घुमाने पर उत्तर दिखाई दे
- जैसे – “राम शब्द”, “धातु रूप”

3) Pop-up Book (Roll no. 14 - 20)

- हर पेज खोलने पर:
- श्लोक बाहर निकले
- चित्र दिखे
- Grammar rule लिखा हो

ASSIGNMENTS LINK

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:f165dc04-77d4-4c94-8a5f-ae5eaa5cc6af>

MATHEMATICS

Roll Number: 1 – 13

Theme: Number Systems

Task

Explore the world of numbers around you! Collect at least 5 real-life examples that represent different types of numbers — Natural Numbers, Whole Numbers, Integers, Rational Numbers, and Irrational Numbers.

Examples to look for: temperature readings (integers), measurement of a diagonal (irrational), prices (rational), count of students (natural numbers).

Mathematics

- Classify each collected number under the correct category on the Number Line.
- Represent at least 2 irrational numbers (e.g., $\sqrt{2}$, $\sqrt{3}$, π) on the number line using geometric construction.
- Show that $0.333\dots = 1/3$ by converting a non-terminating repeating decimal to a fraction using algebraic method.
- Write one example each of: a number that is rational but not an integer, an integer that is not a whole number, and a whole number that is not a natural number.

3D Chart

Create a 'Number Tree' on chart paper. Use thick chart paper or cardboard to cut out a tree shape. On each branch, paste coloured leaf cut-outs labelled with the type of number (Natural, Whole, Integer, Rational, Irrational). Write real-life examples on each leaf. Add a 3D effect by folding the leaves slightly outward.

Analysis

- Why can't we represent all measurements using only rational numbers? Give 2 examples from daily life where irrational numbers appear naturally (e.g., diagonal of a square, circumference of a circle).
- How do number systems help us in banking, science, and engineering?
- What would happen if we only used natural numbers? What situations could we not describe?

Roll Number: 14 – 26

Theme: Area and Perimeter

Task

You are a city planner! Imagine your school wants to redesign its campus. Identify at least 3 different shaped regions in your school or home (e.g., a rectangular classroom, a triangular garden patch, a square courtyard). Measure or estimate their dimensions.

Mathematics

- Calculate the Perimeter and Area of each region using the correct formula.
- For a rectangle: Area = length \times breadth, Perimeter = $2(l + b)$.
- For a triangle: Use Heron's Formula — Area = $\sqrt{[s(s-a)(s-b)(s-c)]}$, where $s = (a+b+c)/2$.
- Compare which shape gives the maximum area for the same perimeter (use a square vs. rectangle example with equal perimeter).
- If the cost of flooring a room is ₹85 per sq. metre, calculate the total cost for your rectangular region.

3D Chart

Create a '3D Campus Map' on a large chart paper or cardboard. Cut and fold pieces of chart paper to represent the different areas (rooms, gardens, courtyards) as 3D pop-up structures. Label each section with its shape name, dimensions, area, and perimeter. Use green paper for open spaces and blue for buildings.

Analysis

- Why is it important for architects and builders to calculate area and perimeter accurately before construction?
- If your school wants to fence the triangular garden, how much fencing material would be needed? Calculate it.
- How does doubling the length of a rectangle affect its area? Does it double, triple, or something else? Explain with an example.

Roll Number: 27 Onwards

Theme: Area of a Sector

Task

Look around you for circular shapes! Find at least 3 real-life objects that are circular (e.g., a clock, a pizza, a dartboard, a wheel). Observe that parts of a circle (sectors) appear very frequently in daily life — a slice of pizza, a clock showing 3 hours, or a pie chart.

Mathematics

- Define: What is a Sector? What is the difference between a Minor Sector and a Major Sector?
- Use the formula: Area of Sector = $(\theta/360^\circ) \times \pi r^2$, where θ is the angle at the centre and r is the radius.
- Calculate the area of a sector for a clock showing 3 hours (angle = 90°) with radius 14 cm.
- A pizza of radius 21 cm is cut into 6 equal slices. Find the area of each slice (sector).
- Also find the Arc Length for each example using: Arc Length = $(\theta/360^\circ) \times 2\pi r$.

3D Chart

Create a '3D Circular Display' on chart paper. Draw a large circle and divide it into sectors of different angles using a protractor. Fold each sector slightly upward to give a 3D effect (like a pop-up flower). Label each sector with its angle, area, and a real-life example it represents. Use different colours for each sector. You may decorate one sector as a pizza slice, another as a clock hand, and so on.

Analysis

- Name 3 professions that use the concept of sectors in their daily work (e.g., pizza chef, engineer, data analyst with pie charts).
- If a windshield wiper of a car cleans an area in a 120° sector with radius 40 cm, what area does it clean in one sweep?
- How is the concept of a sector related to the concept of percentage? (Hint: $360^\circ = 100\%$. What angle corresponds to 25%?)

ASSIGNMENTS LINK

https://docs.google.com/document/d/1qZr2k4Yq0XrxQrfUbtQMRV6jJ8xpT_IO/edit?usp=drivesdk&oid=106930239045343502987&rtpof=true&sd=true

SOCIAL SCIENCE

1. Following work will be done roll.no. wise

- * Roll. No. 1-10 every student will prepare one 3 D chart on the topic: Layers of the Atmosphere**
- * Roll.no. 11-20 working model of interior of earth**
- * Roll.no. 21-30 In group of 5 students prepare model of course of the river**
- * Roll.no. 31 onwards prepare 3 D charts on land forms**

2. All the students need to do a project on Disaster Management

General Instructions:

The project should be handwritten, well presented, researched & pictorial. Cover page, table of contents, acknowledgements, bibliography, headings & subheadings are a must. The project should be presented in a neatly bound A4 size handmade folder. Colours suggested are- Blue, Yellow & Green. The total length of the Project should not exceed 10-12 pages.

3. Learn and Revise the work done in class.

4. Complete the assignment on A4 sheets and keep it in social science portfolio.

ASSIGNMENTS LINK

https://drive.google.com/file/d/18aNLP1LuDZrukPUI_XjB0ZxNsmfxgi5i/view?usp=drivesdk

SCIENCE

1. Prepare a project based on the given topic-

- **Projecting the Path:** A Graphical Analysis of Motion

What to do: Students choose a common daily commute (e.g., their walk or bus ride from home to school). They record the total distance and note down the time at major landmarks (crossing a market, stopping at a signal, speed breakers).

Tasks to include in the report:

- Plot a Distance-Time Graph using the gathered data.
- Identify zones of uniform motion, non-uniform motion, and rest.
- Calculate the average speed of the entire journey.

- **The Ink Mystery: Chromatography of Everyday Inks**

What to do: A classic, highly scientific, non-working laboratory investigation that can easily be done at home with minimal supplies.

Tasks to include in the report:

- Take strips of coffee filter paper or thick white blotting paper.
- Draw a line with pencil and place a drop of black/blue ink (using gel pens, sketch pens, and ballpoint pens) on the line.
- Suspend the strips in water (or rubbing alcohol for permanent markers) and let the capillary action separate the dyes.
- Scientific Outcome: Calculate the retention factor (R_f value for each dye) using formula

$$R_f = \frac{\text{Distance traveled by the solute}}{\text{Distance traveled by the solvent}}$$

- Discuss whether the tested inks are pure substances or mixtures.

2. Make model any one of the following topics

- Zero electricity fridge
- Sound based fire extinguisher
- Piezoelectric footsteps
- Any AI-based model

ASSIGNMENTS LINK

https://drive.google.com/file/d/1tthUgeimPThQs57m_EIFHunoW47MiHYT/view?usp=drivesdk

INFORMATION TECHNOLOGY

1. “My Goal Ladder”

- Draw a ladder (on paper or digitally)
- Write:
 - Top → Your big goal (e.g., score 90%)
 - Steps → Small actions to reach it

On A4 size coloured sheet .

2. Prepare a short video presentation (2–3 minutes) on a famous entrepreneur.

Your video should include the following points:

1. Introduction of the entrepreneur (name and company)
2. Early life and challenges faced
3. Key achievements and success story
4. Entrepreneurial qualities (e.g., leadership, risk-taking, innovation)
5. Your learning/inspiration from their journey

Instructions:

- Use clear voice (English) or subtitles
- Add relevant images/clips/music to make the video engaging
- Ensure originality (no copying directly from the internet)

Submission:

- Format: MP4 video

3. Green IT Campaign

Topic: Green Skills

- Create Poster on “Eco-friendly Technology”

ASSIGNMENTS LINK

https://drive.google.com/file/d/1W_KH8yS8hls4R-kqWE333yn0lc1LUMAY/view?usp=drivesdk

SEWA PROJECT

"Dignity of Labour — Every Job Deserves Respect"

Class 9 | SEWA Activity | Academic Year 2025–26

"Hands that work are holier than lips that pray." — Swami Vivekananda

Project Overview

This SEWA project invites Class 9 students to explore and honour the concept of Dignity of Labour — the belief that all forms of honest work, whether manual or intellectual, are equally worthy of respect. Through creative, hands-on activities, students will reflect on how every profession contributes to society and why no job should ever be looked down upon. Divided into three groups, students will engage in meaningful tasks that celebrate workers and the value of honest effort.

Project Guidelines for All Groups

- Students must work on their assigned activity based on their roll number grouping.
- All projects must be neat, presentable, and include a written or oral explanation of the concept.
- The project must reflect empathy, awareness, and respect for all professions.
- No new materials should be purchased — use available or recyclable resources wherever possible.
- Students are encouraged to show creativity, original thinking, and a thoughtful social message.

Group I (Roll No. 1–15): “Workers’ Wall of Fame” — Tribute Poster

Project Requirement:

- Chart paper or poster board (A2 or A3 size)
- Sketching/drawing materials, colour pencils, or watercolours
- Old magazines or newspapers (optional, for collage cutouts)
- Glue, scissors, ruler, markers

Project Content:

- Design a colourful tribute poster honouring workers from at least 5 different professions.
 - *Examples: farmer, sanitation worker, teacher, construction labourer, nurse, cobbler, etc.*

- Illustrate or paste images of each worker with their name and profession written below.
- Add a powerful title such as: “All Work Has Worth” or “Every Hand Builds the Nation.”
- Write one sentence beside each worker explaining their contribution to society.
- Include a border or frame decorated with symbols of tools, hearts, or stars.

Submission Report Must Include:

- Student name & roll number
- Title of the poster
- 4–5 lines explaining what ‘Dignity of Labour’ means to you personally

Group II (Roll No. 16–30): “A Day in Their Shoes” — Story or Comic Strip

Project Requirement:

- Blank A4 sheets or a small handmade booklet (4–6 pages)
- Pencils, pens, sketch pens for writing and illustration
- Optional: printed background images pasted with glue

Project Content:

- Write a short story (300–400 words) OR create a comic strip (6–8 panels) about one day in the life of a labourer or daily-wage worker.
 - *E.g., a vegetable vendor, a sweeper, a brick kiln worker, or a rickshaw puller.*
- The narrative must show the worker’s dignity, hard work, and the respect they deserve — not pity.
- Include at least one moment where another character shows respect or gratitude to the worker.
- The final page/panel must carry a positive message or moral about the dignity of labour.
- Illustrate each page or panel with simple but expressive drawings.

Submission Report Must Include:

- Student name & roll number
- Title of the story or comic strip
- 5–6 sentences explaining which profession you chose and why it deserves respect

Group III (Roll No. 31 Onwards): “Hands-On Heroes” — Skill Experience & Reflection

Project Requirement:

- Any simple household material relevant to a chosen task
- A notebook or loose sheets for the reflection journal

- Optional: photographs (printed or drawn by hand) showing the task being done

Project Content:

- Choose one manual task that is typically done by a worker or service provider in daily life.
 - *Examples: sweeping and mopping a room, cooking a full meal, stitching a torn cloth, washing utensils, watering plants, polishing shoes, basic carpentry, etc.*
- Perform the task at home sincerely for one full session (minimum 30 minutes).
- Write a reflection journal (1–2 pages) describing:
 - *What task you did and how you felt doing it*
 - *What difficulties or challenges you faced*
 - *What you learnt about the workers who do this daily*
 - *How your view of that profession has changed*
- Paste or draw at least one image showing you doing the task.
- End the journal with a message of respect for workers of that profession.

Submission Report Must Include:

- Student name & roll number
- Name of the task performed
- The completed reflection journal (handwritten preferred)
- 4–5 sentences on how this experience changed your perspective

 End of Holiday Homework

“Education is not preparation for life; education is life itself.” — John Dewey