

SUMMER HOLIDAYS HOMEWORK 2025

CLASS 9

English

INSTRUCTIONS

- *Do not forget to add pictures.
- *No repetition or copying of work would be accepted.
- *Please don't share your work with anyone.
- *No marks will be awarded for a casual approach of completing the work.

1) Depict any one of the following poems from NCERT Book- Beehive in a creative manner as an artistic representation and present it in the class.

1. The Road Not Taken
2. Rain on the Roof
3. Wind

How to do?

- Use your imagination to convert the poem in an artistic representation i.e collage making with pictures from magazine or newspapers to be presented in the class.
- The presentation should be self- explanatory.

Where to do?

- A3 Size sheets

Parameters for Assessment

Relevance to content, creativity and presentation

2) Convert the prose of NCERT Book 'The Sound of music' – Evelyn Glennie into a creative poem

How to do ?

The poem should include all the aspects of Evelyn's journey. From being a non- entity to an epitome of inspiration for all other children like her. It should be of 4 stanzas.

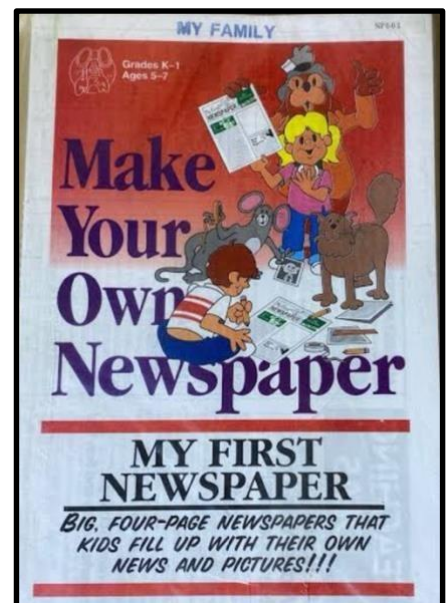
Where to do?

A4 Size sheets

Parameters for Assessment

Originality, creativity and imagery

3) Design your own newspaper



Students are divided into group for the task.

How to do?

The newspaper should have five sections

1. Facts and figures of English language
2. Creative Corner- Your classroom poetry or story
3. Quotes- By famous poets with their names
4. Entertainment
5. Games & Puzzle- based on tenses, verbs, prepositions or conjunctions. (Any one)

For example Snakes & Ladder on prepositions.

Where to do A3?

Size sheets (5 pages)

Parameters for Assessment

Quality of content, originality and presentation

GROUP A: Roll no. 1–7

GROUP B: Roll no. 8–14

GROUP C: Roll no. 15–21

GROUP D: Roll no. 22–28

GROUP E: Roll no. 29–36

4) Read any one novel of your choice and write the review

How to do?

The review is to be written in 250-300 words keeping in mind the given aspects:

- About the Writer
- Summary
- Favourite character
- Analysis

Where to do?

A4 Size sheets

Parameters for Assessment

Content, language and accuracy

विषय - हिंदी

1. परियोजना कार्य - बछेंद्री पाल की तरह आगे बढ़ती किन्हीं दो भारतीय महिलाओं पर निम्न बिंदुओं के आधार पर एक परियोजना तैयार करें-

हर प्रसिद्ध महिला का जीवन परिचय लिखें और उसके कार्यों से संबंधित चित्रों को चिपकाएँ या बनाएँ।

समाज में उनके योगदान का उल्लेख करें। (चित्र भी लगाएं)

अंतिम पृष्ठ पर दिए गए विषय पर अपने विचार लगभग 100-150 शब्दों में लिखें-

विषय- “भारतीय महिला अपना आसमान तलाश लेगी, अगर वातावरण अनुकूल हो” ।

2. चित्र वर्णन

छुट्टियों में आप कहीं- न-कहीं घूमने जाते हैं और वहां पर चित्र/फोटो भी खींचते हैं। उनमें से किन्हीं 5 चित्रों का प्रिंट आउट A4 शीट पर चिपकाएं और लगभग 50-60 शब्दों में उसका वर्णन करें।

3. संवाद लेखन

1. अपने माता-पिता से उनके बचपन के बारे में बात कीजिए कि जब वे छोटे थे, तब उनके सपने क्या थे ? और इस बातचीत को संवाद रूप में लिखें।

2. छुट्टियों में अपना कोई एक मनपसंद खाना बनाना सीखें। उसे बनाने की रेसिपी मां से पूछें और इस संदर्भ में हुई अपनी बातचीत को संवाद रूप में लिखें।

3. अपने दूर रहने वाले रिश्तेदारों/ दादा-दादी/ नाना- नानी से फोन पर उनका हाल चाल पूछिए और फिर उस बातचीत को संवाद रूप में लिखिए।

MATHS

Complete all questions from all exercises of the following chapters from the book **Exemplar Problems**

(Attempt all questions with proper Steps and not just the final answers)

1. Heron's Formula. 2. Polynomials. 3. Linear equations

The work should be done in the Assignment Sheets (Ruled A4 Size) and should be submitted in a folder latest by 05.07.25

Also prepare well for the upcoming UT1 Examination.

The syllabus for the UT1 Examination :

1. Polynomials 2. Heron's Formula

SCIENCE

Explore. Observe. Create.

Dear Students,

The summer holidays are a perfect time to relax, recharge, and also rediscover the joy of learning beyond the classroom. This year, your Science Holiday Homework is designed not just to revise important concepts, but to help you apply them in real life, observe your surroundings scientifically, and unleash your creativity. Through hands-on activities, experiments, creative presentations, and real-world applications, you will explore key chapters like Matter in Our Surroundings, The Cell, and Motion in fun and innovative ways. These projects are meant to build curiosity, critical thinking, and confidence in your scientific understanding.

Remember:

- Be curious like a scientist.
- Be creative like an artist.
- And most importantly, enjoy the process of discovery!

We look forward to seeing your thoughtful efforts and innovative ideas. Have a wonderful, learning-filled summer!

Task 1

DIY Science Video: Prepare an Educational Video (2-3 mins) on the given topic according to the Roll Numbers allotted. Videos to be prepared in school uniforms.

Roll No. 1 to 5 :- States of Matter in Real Life- Showcasing different states of matter at home and transitions between them.

- **Include:** ○ Melting ice → water (solid to liquid) ○ Boiling water → steam (liquid to gas) ○ Camphor/naphthalene → gas (sublimation)
- **Bonus:** Add slow-motion or time-lapse to show changes clearly.

Roll No. 6 to 10 :- "Do Particles Really Have Space Between Them?"-
Salt/Sugar + Water or Ink/Dye in Water

Roll No. 11 to 15 :-

Experiment: "Pressing Matter"-

- ☐ Solid Compressibility (Sponge or Clay)
- ☐ Liquid Compressibility (Syringe with Water or Plastic Bottle with Water)
- ☐ Gas Compressibility (Balloon or Air-filled Plastic Bottle)

Bonus Challenge

If you're up for an extra challenge, **compare two liquids** (like water and oil) to see if they are equally compressible. You can use a **syringe** or **plastic bag** for this.

Roll No. 16 to 20 :-

Evaporation happening in everyday situations and the factors that affect it, like temperature, surface area, and wind speed.

Roll No. 21 to 25 :- "The Magic of Osmosis" Osmosis in
Potato/ egg/ raisins/apricots

Roll No. 25 to 30 :- "The Mystery of Tiny Particles!"

Exploring the Invisible World of Matter- Dissolving Salt/Sugar in Water, Using Food Coloring to Show Tiny Particles etc.

Roll No. 31 to 35 :- "Dancing Particles!"

Exploring the Continuous Motion of Matter- Ink in water, Tea Bag in Warm Water, etc.

Roll No. 36 to 40 :- "Speedy or Sticky? The Science of Mixing!"

Investigating how Temperature and Attraction affect Particle Mixing- "Color Race in Hot & Cold Water", Solids vs. Liquids,

NOTE- ☐ **Add a voice-over or captions explaining the scientific concepts**

☐ **Optional: Make it fun with sound effects or slow-motion clips!**

RUBRICS- 1. Scientific Understanding-1M

2. Creativity & Originality-1M

3. Clarity & Communication-1M

4. Visuals & Demonstration-1M

5. Real-life application-1M

Task 2

"Build a Cell" – 3D Model Project

- **Task:** Create a **3D model of an animal or plant cell** using household or craft materials (thermocool, clay, cardboard, food items like jelly beans for organelles, etc.).
- **Deliverable:**
 - Label each part: nucleus, cytoplasm, mitochondria, cell wall (if plant), etc.
 - Mention functions of key organelles on an accompanying sheet
- **RUBRICS-** 1. Scientific Accuracy-1M
2. Creativity & Design-1M
3. Neatness-1M
4. Labeling & Explanation-1M
5. Effort & Completion-1M

OR

"Cell Riddle Challenge"

- **Task:** Write 5–10 riddles or poems about cell organelles and their functions.
- **Example:**
*I'm the control center, not just a blob, I
keep everything working, it's quite a job!
What am I? (Answer: Nucleus)*

Task 3

Task Time-Lapse Motion Study

Task

Use a **phone or camera** to create a **time-lapse video** of a moving object. You can choose from the following or think of your own:

- **Sunset/Sunrise** – shows slow motion of celestial bodies (apparent motion)
 - **Plant Bending Toward Light** – phototropism as an example of non-uniform motion
 - **Toy Car Moving on a Slope or Floor** – shows acceleration or uniform speed
 - **Clock Hands Moving** – circular and uniform motion
 - **Cloud Movement** – slow and irregular motion
-

Instructions

1. **Set up the phone/camera:** Use a tripod or stable surface.
2. **Use time-lapse mode:** Most phones have this in their camera settings.
3. **Record for at least 10–30 minutes** (depends on your object).
4. **Save the video** and review the motion.

Analysis & Explanation (To be submitted with the video)

1. **Type of Motion** ○ Is the object showing **uniform motion** (equal distance in equal time)? ○ Or **non-uniform motion** (varying speed or direction)?
 - Example: *A toy car speeding up is showing accelerated, non-uniform motion.*
2. **Acceleration or Uniform Movement** ○ Did the object start slow and then speed up (acceleration)? ○ Was the speed constant throughout?
 - Was there any rest or change in direction?
3. **Draw a Motion Graph** (on paper or digitally) ○ Create a **distance-time graph** or **velocity-time graph** ○ Label:
 - ✦ X-axis: Time
 - ✦ Y-axis: Distance or Velocity ○ Interpret:
 - ✦ Straight line sloping up = uniform motion
 - ✦ Curve = accelerated motion
 - ✦ Flat line = rest or constant velocity
4. **Conclusion** ○ What did you observe? ○ How did time-lapse help you see motion more clearly? ○ What kind of real-world motion does your experiment resemble?

Bonus Tips for Creativity

- Add background music or narration to your video.
- Use captions or arrows to highlight changes in motion.
- Decorate your graph or video presentation with relevant scientific terms.

TASK 4

Revise the chapters for UT 1 assessment- Lesson1 Matter around us and Fundamental Unit of Life .

Financial Market Management

A. Choose any one project

1. Digital Banking
2. History of Money

Students to include visual aids such as charts, graphs, tables, and diagrams to illustrate key points and enhance understanding.

Presentation: Each student prepares a short presentation (5-10 minutes) summarizing their research findings.

1. Write in detail about Evolution of Money.
 2. . Compare existing interest rates of different commercial Banks for saving deposits .
 3. Write in detail about different currencies of the world minimum ten.
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SOCIAL SCIENCE

1. Disaster Management Project

What to do?

Prepare a project file on any one natural disaster and one human induced disaster (HID).

How to do?

The project should be put in one file, it should include the following:

- It should be a handwritten project (Limit 8-10 pages).
- The cover page should be written in bold letters with topic, name, class and section along with the roll number.
- Clear, related and coloured pictures, newspaper clippings, graphs and articles.
- Define Disaster, types of disaster.
- Problems faced by victims on the chosen disaster.
- Helping guidelines post disaster.
- Your opinion on how to control HID (Human induced disaster).
- Preventive measures taken by government authorities.
- The project must have – At the beginning

i) A cover page ii) An

acknowledgement iii) Table

of contents / index

- Conclusion
- At the end Bibliography which includes a mention of the sources from where reference material

has been obtained and teacher's Remark. **2. Art Integration Project**

What to do?

Make two advertisements encouraging tourism in Sikkim and Delhi.

How to do?

A group of students to draft two advertisements in which they will add popular places(Delhi &Sikkim), Historical significance, climate, food, Culture and some interesting facts about Delhi and Sikkim.

Where to do?

Scripts of advertisement to be written on A4 size sheet with Tag lines about the places. The advertisement would be presented in school.

3. *“Every action is important and every deed is vital...”*

Animal and Bird feeding Activity

“Birds and Animals need our help way more in the summer months than at any other time during the year”. So let’s join hands and save them.

All students must provide water to birds and stray dogs on terraces and streets (or wherever possible).

Also, reach out to their help howsoever possible through food, shelter etc.

4. Revise for UT1

Your work will be assessed on the basis of handwriting, presentation, neatness and timely submission.

Artificial Intelligence

I. Create a PPT (using Canva) on Self Management Skills. Save it and upload it in your Google Drive

II. Create a Python script file (.py) and save all your answers in it. Alternately, work on Google colab with your gmail id and share the link when asked. For each task, write a comment/text explaining what the code does.

1. Calculate the Sum of a List of Numbers: Write a program that takes a list of numbers as input from the user and calculates the sum of the numbers. Hint: Use a loop to iterate over the list and add the numbers.
2. Check if a Number is Even or Odd: Write a program that takes a number as input from the user and checks whether the number is even or odd. Print an appropriate message. Hint: Use the modulo operator (%) to check for even and odd numbers.
3. Create a Basic Calculator: Write a program that asks the user to enter two numbers and a mathematical operation (+, -, *, /). Perform the operation on the numbers and print the result. Hint: Use conditional statements to handle different operations.
4. Find the Largest Number in a List: Write a program that takes a list of numbers as input from the user and finds the largest number in the list. Hint: Use a loop to iterate through the list and compare each number.
5. Create a Function to Check if a Number is Prime: Write a function named is_prime() that takes a number as input and returns True if the number is prime and False otherwise. Hint: A prime number is divisible only by 1 and itself.
6. Print a Pattern Using Nested Loops: Write a program that uses nested loops to print the following pattern

```
* * * *
* * *
* *
*
*
```

Submit the Google drive link of your PPT and your programs in the google form <https://forms.gle/Ap4XdpsVcjlw99rmk9> **Do not forget to give the viewer rights**

INTER DISCIPLINARY ART INTEGRATION

ACTIVITY WITH PARTNER STATE :

Under Ek Bharat Shrestha Bharat Programme

Dear Students

For your holiday homework, we have an exciting project lined up for you - creating a newspaper! But not just any newspaper; you'll be focusing on the vibrant cultures and cuisines of Sikkim

Project Details :

1. Newspaper Theme :

Your newspaper will be a celebration of the rich heritage and diversity of Sikkim. Choose a catchy name for your newspaper that reflects the essence of these regions.

2. Content Creation :

- Articles:- Write articles highlighting the unique aspects of the culture and cuisine of the chosen region.
 - Columns:- Create columns dedicated to various topics such as local delicacies, traditional clothing, tourist attractions, and cultural festivals.
 - Visual Elements:- Use pictures, drawings, and cutouts to add visual appeal to your newspaper. Ensure that the visuals accurately represent the culture and cuisine of Sikkim
3. Bilingual Approach:- Your newspaper should be bilingual, featuring content in English and either Hindi or the local language of the region you've chosen.
4. Layout Design:- Pay attention to the layout design of your newspaper. Organize the content into columns, headlines, and sections for easy readability.
5. Creativity : Let your creativity shine through in every aspect of your newspaper. Experiment with fonts, colours, and layouts to make your newspaper visually engaging.
6. Submission : Please submit your completed newspaper project within the first week of July after the reopening of the school.

Additional Tips :

- Research extensively about the culture, cuisine, economy, tourism, festivals, flora and fauna, architecture, monuments etc. of Sikkim and Delhi both to ensure accuracy in your newspaper content.
- Collaborate with your classmates (group wise) to divide tasks and work efficiently on different sections of the newspaper.
- Proofread and edit your content to ensure clarity and correctness before final submission.

We expect to see wonderful newspapers you create! If you have any questions or need guidance, feel free to reach out to your subject teacher .

Happy creating!

Creating Groups : The whole Class will be divided into 5 homogenous groups of about 8 students each.

Each group must create a Newspaper aesthetically using 3 Sheets of A3 size with matter written on/ printed on both sides (front and back). The Newspaper must contain the matter comparing Sikkim and Delhi on the basis of the following categories under the subjects mentioned:

6 pages in all

One page per subject as follows:

English- Food and Festivals

Hindi - Culture and Costumes

Maths - Economy and Tourism

S.St. - Physical features and Climate /Architecture and Monuments

Science - Flora and Fauna

Art and craft & Music - Various forms of Native art and music.

ENGLISH (1 Page) : Food and Festival

- Research extensively about the Food and Festivals of Sikkim and Delhi to ensure accuracy in your newspaper content. Compare and contrast the two and present in the most creative manner.

हिंदी :- दिल्ली और सिक्किम की संस्कृति एवं वेशभूषा (Culture and costumes) (1 Page)

- यह कार्य अन्य विषयों के साथ भी समेकित है। (Subject integrated)
- हिंदी विषय में कार्य करने के लिए समाचार पत्र में एक पृष्ठ निर्धारित किया गया है।
- दिल्ली और सिक्किम की संस्कृति एवं वेशभूषा के विषय में जानकारी एकत्र कीजिए और तुलना करते हुए समाचार पत्र में निम्न बिंदुओं पर लेख लिखिए -
 1. समाज
 2. धर्म
 3. भाषा
 4. वेशभूषा
 5. कला (Art)

Maths - Economy and Tourism (1 Page)

Research and Collect the data from authentic Govt. Tourism websites/Journals etc. relating to the Tourism and Economy of the Delhi VS. Sikkim and compare them.

Compare the economic factors of the two.

Represent the data in various types of Graphical and Pictorial Representations neatly in a creative manner.

SCIENCE (1 page)

ART INTEGRATED LEARNING PROJECT- Sikkim is known for its exotic and Lush green landscape. It is mostly frequented by adventurous souls from every corner of the world to enjoy various water sports.

Make a page of a newspaper on Comparative Study of Flora and Fauna: Delhi vs. Sikkim. In this holiday homework, you will delve into the contrasting ecosystems of Delhi, the bustling capital city, and Sikkim, the serene tropical paradise.

Draw or paste photographs of the same.

SOCIAL SCIENCE (1 Page)

Compare the physical features and climatic conditions of Sikkim and Delhi. All groups must add pictures and hand made drawings to support their comparison. Avoid writing general points and be specific with your content.

ART & CRAFT AND MUSIC (1 Page)

Create an Advertisement each to promote tourism in Delhi and Sikkim using any medium – Water colour, Pencil colour, Markers etc. in full colour.

RAMJAS GREEN POLICY:

In line with our Green Policy, we encourage all students to prepare their Holiday Homework (HHW) using only biodegradable and eco-friendly materials. Say no to plastic files, folders, and thermocol—HHW in such materials will not be accepted. To promote creativity and environmental responsibility, extra credits will be awarded for innovative use of sustainable resources. Let's join hands to protect our planet while making learning fun and meaningful!