



BRILLIANTS' CONVENT

CLASS-IX
2026-27

SUMMER HOLIDAY HOMEWORK



Class-IX

English

1. “Wonders of Sikkim: A Travel Vlog Journey”

Objective: To develop students’ speaking and presentation skills while enhancing their awareness of tourism and sustainable practices in Sikkim.

Task : Prepare a collage and record a 2–3 minute travel vlog on “Tourism in Sikkim.” Imagine you are a travel vlogger exploring the beauty of Sikkim. Highlight important tourist attractions, natural landscapes, culture, and the importance of eco-friendly tourism. Instructions:

- Plan your vlog with a clear introduction, body, and conclusion.
- Include famous places, culture, and environmental aspects.
- Use a clear voice, correct pronunciation, and confident expression.
- Be creative and engaging (you may add visuals, props, or background).
- Duration: 2–3 minutes
- Submit the video recording along with a collage.

2. You are the Cultural Secretary of your school. Inspired by the chapter “*A Pot Maker*” from your English textbook, your school is organising a Pottery Workshop to promote traditional art and craftsmanship. Write a notice in about 50 words informing the students about the workshop. Include details such as date, time, venue, purpose, and how to register.

3. Prepare two attractive flowcharts on ‘Tenses’ and ‘Modals’, clearly explaining the rules, on A3-size sheets.

4. Revise all the topics covered so far for the upcoming Pre-Mid Term Exams.

Hindi

1. आपकी कक्षा में 'एक भारत श्रेष्ठ भारत' अभियान के तहत सिक्किम राज्य पर एक प्रदर्शनी लगी है। रैदास के पदों में वर्णित 'प्राकृतिक भक्ति' (जैसे चंदन, पानी, चाँद, चकोर) और सिक्किम की 'प्रकृति पूजा' (जैसे वहाँ के पवित्र पहाड़ों और नदियों का सम्मान) के बीच समानता पर चर्चा करते हुए दो मित्रों के बीच लगभग 80-100 शब्दों में एक संवाद तैयार कीजिए।”

सिक्किम की थांगका (Thangka) चित्रकला बहुत प्रसिद्ध है। आप 'दो बैलों की कथा' के किसी एक मुख्य दृश्य (जैसे हीरा-मोती का कांजीहौस से भागना या झूरी से मिलना) को थांगका बॉर्डर और सिक्किमी रंगों का उपयोग करके चित्रित कीजिए ।

3. करवाए गए सभी पाठों का अभ्यास कीजिए ।

Mathematics

1. Mandala Geometry:

Sikkim is famous for its beautiful Thangka paintings and Mandalas. Draw a complex Mandala design using a compass and ruler. Identify and label the different geometric shapes you used (circles, concentric circles, equilateral triangles, and regular polygons).

2. Coordinate Flag Mapping:

Research the coordinates (Latitude and Longitude) of 5 major towns in Sikkim (e.g., Gangtok, Pelling, Namchi, Lachung, Ravangla). Plot these points on a graph paper, taking Gangtok as the origin $(0,0)$ and approximating the relative distances.

3. The "Organic Sikkim" Case Study:

Sikkim is India's first 100% organic state. Research the production data of any one organic crop (like Cardamom and Ginger) over the last 5 years.

- Present this data in a neat Frequency Distribution Table.
- Construct a Bar Graph to show the production of the crop.

Or

Make a Pie chart to show the production on crop for last 5 years.

Instructions:

- a. Cover Page
- b. Index Page
- c. Thematic Introduction (Maths & Sikkim)
- d. Activity Sheets/Worksheets
- e. Conclusion and Bibliography (Sources of research).

Science

Chemistry

1. Create a colorful poster on:

“Natural Mixtures of Sikkim and Their Separation Techniques”

- Examples from Sikkim such as:
 - Tea leaves and stems (handpicking)
 - River water (filtration)
 - Herbal extracts (evaporation/distillation)
- Draw diagrams of methods:(any one technique)
 - Filtration
 - Evaporation
 - Handpicking
 - Sieving

Decorate with

- Sikkim traditional patterns
- Mountains, rivers, monasteries

Physics

Design an Artistic Flowchart titled "The Physics of the Teesta River." Illustrate how the potential energy of water at high altitudes converts into kinetic energy to drive hydroelectric turbines. Use sketches of the mountains and river to show the Law of Conservation of Energy. Explain the concepts of Potential and Kinetic Energy in the context of Sikkim's power plants.

Biology

Comic Project: Saving the Cell Kingdom from Virus Attack

Create a colourful comic story based on the chapter 'Cell and Tissue' in which different cell organelles become superheroes and save the Cell Kingdom from a dangerous virus attack."

Instructions:


- Use A4 sheets or a scrapbook and make at least 6–8 comic panels.
- Include the following characters:
 - Captain Nucleus
 - Mighty Mitochondria
 - Chloroplast Hero
 - Ribosome Workers
- Add dialogues and speech bubbles.
- Label the function of each organelle through the story.
- Use colours, creativity, and neat drawings.

Social Science

1. Assume the role of a travel planner entrusted with promoting tourism in Sikkim. Design a visually appealing brochure/poster that effectively highlights its geographical location, physical features (including Kanchenjunga), cultural diversity, and economic significance (with reference to organic farming and tourism). Incorporate at least three tourist attractions and conclude with a persuasive and impactful slogan.
2. Prepare a project on Disaster Management. Define disasters and explain different types of natural and man-made disasters with examples. Describe the causes, effects, and preventive measures of any two disasters. Include a disaster case study of Sikkim (landslides/floods), explaining its causes and safety measures. Also, suggest steps for disaster preparedness and conclude with the importance of disaster management.
3. Revise all the chapters done in the class.

Artificial Intelligence

1. Write the following python programs in IDLE platform. After coding execute the program and take the screenshot of each error free code with its output. Get the print outs and submit in a strip file in the mentioned order.

PRINT	<ul style="list-style-type: none">• To print personal information like Name, Father's Name, Class, School Name.• To print the following patterns using multiple print commands-  <ul style="list-style-type: none">• To find square of number 7• To find the sum of two numbers 15 and 20.• To convert length given in kilometers into meters.• To print the table of 5 up to five terms.• To calculate Simple Interest if the principle_amount = 2000 rate_of_interest = 4.5 time = 10
INPUT	<ul style="list-style-type: none">• To calculate Area and Perimeter of a rectangle• To calculate Area of a triangle with Base and Height• To calculating average marks of 3 subjects• To calculate discounted amount with discount %• To calculate Surface Area and Volume of a Cuboid

2. Make a video on Andaman and Nicobar Islands/ Sikkim / Lakshadweep . (Hint: food, culture, traditional dress, location, flora and fauna etc.) (use any free AI tool.).

3. AI and Fun: Play/Observe the given AI Games/Experiments to learn and understand how AI works. Share highest point scored in each game.

- <https://research.google.com/semantris/>
- (use the above link and play Arcade to think and type fast and share your highest score)
- <https://experiments.withgoogle.com/quick-draw>
- <https://semiconductor.withgoogle.com/>
- <https://www.scroobly.com/>
- <https://emojiscavengerhunt.withgoogle.com/>
- <https://experiments.withgoogle.com/bird-sounds>
- <https://code.org/oceans>

Submit your holidays homework at : richa.arora45@gmail.com (mention your name, class and section in subject line.)