HOLIDAY HOMEWORK - 2025-26

CLASS - IX

ENGLISH

Task - 1

• Virtual Book Talk

Read any one of the following stories or any one of your choices and make a digital presentation that talks about the story you read.

- 1. "The Last Leaf" by O. Henry
- 2. "The Necklace" by Guy de Maupassant
- 3. "The Open Window" by Saki (H.H. Munro)
- 4. "Thank You, Ma'am" by Langston Hughes
- 5. "After Twenty Years" by O. Henry
- 6. "All Summer in a Day" by Ray Bradbury
- 7. "The Model Millionaire" by Oscar Wilde
- 8. "The Tell-Tale Heart" by Edgar Allan Poe

Platforms to Use:

- Canva (<u>www.canva.com</u>) Use the Presentation or Book Report templates.
- **Google Slides** Simple and shareable.
- **Microsoft PowerPoint** If offline access is needed.
- <u>https://library.upschool.co/?offset=0</u> (APP)

What to Include in the Slides (6–8 slides):

- 1. Cover Slide Title of the book, author, your name, and class.
- 2. About the Author 3–4 lines about the author.
- 3. Summary of the Story Brief overview (100–150 words).
- 4. Main Characters Name and describe 2–3 key characters.
- 5. Favourite Scene or Quote With a short reason.
- 6. Moral / Message of the Story
- 7. Personal Opinion Did you like it? Why or why not?
- 8. Ratings Give stars (1 to 5) and say for whom you'd recommend it.

TASK-2

Letter Writing Practice

Write two letters:

- 1. A formal letter to a newspaper editor on a current issue (e.g., "Plastic Pollution in My City").
- 2. An informal letter to a friend sharing your holiday experiences. Skills: Letter format, tone, structure.

TASK-3

Travel Brochure (Creative Writing)

Task: Design a travel brochure titled "Why You Must Visit the Sikkim!" Include:

- Attractive slogans
- Hand-drawn illustrations or pictures
- Highlights: water sports, history, food, eco-tourism

HINDI

1. आर्ट इंटीग्रेटेड प्रोजेक्ट(एक भारत श्रेष्ठ भारत) के अंतर्गत Sikkim में खाए जाने वाले खाद्य पदार्थ तथा वहाँ मनाए जाने वाले त्योहार ,मेले और वहां पर घूमने की जगहों के विषय पर एक ब्रोशर/ फ्लायर/पी.पी.टी. बनाइए।

2. पाठ1 दुख का अधिकार रविदास के पद और गिल्लू के प्रश्न उत्तर लिखकर उन्हें याद करें । 3. कक्षा में कराए गए सभी व्याकरण का कार्य दोहराइए। अनुस्वार ,अनुनासिक, शब्द और पद के 10-10 उदाहरण लिखिए।

4.1अपने विद्यालय में आयोजित वृक्षारोपण समारोह का वर्णन करते हुए मित्र को पत्र लिखिए। 4.2 अपने बड़े भाई के विवाह में शामिल होने के लिए प्रधानाचार्य को चार दिन का अवकाश पत्र लिखिए

5.1बीमार और डॉक्टर के बीच होने वाली बातचीत का लगभग 100 शब्दों में संवाद लिखिए। 5.2 आने वाली गर्मी की छुट्टियों पर दो मित्रों के मध्य संवाद लिखिए।

6. कोई तीन अनुच्छेद लिखिए। क. भ्रष्टाचार: समाज के लिए अभिशाप। ख. कंप्यूटर: आज की जरूरत ग. समय का सदुपयोग घ. प्रकृति की रक्षा मानव की सुरक्षा।

7. तीन अच्छी कहानियाँ याद कीजिए और उनका सारांश लिखिए।

MATH

Activity:

Represent $\sqrt{2}$, $\sqrt{3}$, $\sqrt{4}$, $\sqrt{5}$, $\sqrt{6}$, $\sqrt{7}$, ... in a continuous manner on an A3 size sheet. A sample image for the spiral has been attached, use your creativity to create the square root spiral.



Project:

- Roll No. 1 to 16 Working model on classification of polynomials. •
- Roll No. 17 onwards Create a map of a park using Coordinate Geometry, including features like paths, • gardens and playgrounds.

Assignment:

- Practice all the questions (Examples & Exercises) of chapter 1 and chapter 2 •
- Solve the questions of assignment. •
- Make a separate notebook for the all the written work.

Number System

- a. $\sqrt{2}$ and $\sqrt{3}$ b. $\frac{-2}{5}$ and $\frac{1}{2}$ 1. Write two rational numbers between: b. 2.2 and 2.3.
- 2. Write two irrational numbers between: a. $\sqrt{3}$ and $\sqrt{4}$.
- 3. Represent $\sqrt{10}$, $\sqrt{17}$, $\sqrt{9.5}$ on a number line.
- 4. Arrange in ascending order $\sqrt[8]{90}$, $\sqrt[4]{10}$, $\sqrt{6}$.
- 5. Rationalize the denominator of each of the following :

a.
$$\frac{1}{1+\sqrt{2}-\sqrt{3}}$$
 b. $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}+\sqrt{2}-\sqrt{5}}$

6. Express the following in the form of rational number:

a. 2.
$$\overline{34}$$
 b. $5.4\overline{5}$ c. $5.\overline{2} + 0.4\overline{5}$
7. If $x = \frac{\sqrt{2}-1}{\sqrt{2}+1}$ and $y = \frac{\sqrt{2}+1}{\sqrt{2}-1}$, find the value of $x^2 + y^2 + xy$.
8. If $\frac{\sqrt{11}-\sqrt{7}}{\sqrt{11}+\sqrt{7}} = x - y\sqrt{77}$, find the values of x and y where x and y are rational numbers
9. Simplify : $\left[\left[5 \left\{ \left(\frac{1}{8}\right)^{\frac{-1}{3}} + \left(\frac{1}{27}\right)^{\frac{-1}{3}} \right\} \right]^2 \right]^{\frac{1}{4}}$
10. If $a - 8\sqrt{5}b = \frac{8+\sqrt{5}}{8-\sqrt{5}} - \frac{8-\sqrt{5}}{8+\sqrt{5}}$, find a and b.

POLYNOMIALS

- 1. If If $x + \frac{1}{x} = 11$, find the value of $x^2 + \frac{1}{x^2}$
- 2. Factorise $4x^2+9y^2+16z^2+12xy-24yz-16xz$
- 3. Write in expanded form: $(2x+1)^3$
- 4. Evaluate using suitable identity. $(998)^3$
- 5. .Factorise i) $12x^2-7x+1$ ii) $3x^2-x-4$ iii) x^3-3x^2-9x-5
- 6. Factorise i) $2y^3+y^2-2y-1$ ii) x^3-3x^2-9x-1
- 7. Write in expanded form $(x+2y+4z)^2$ ii)99³ iii)(102)³ iv) $(2x+1)^3$
- 6. Factorise $27y^3+x^3+z^3-9xyz$
- 7. Verify $x^3+y^3=(x+y)(x^2+xy+y^2)$
- 8. Factorise i)27 y^3 +125 z^3 ii)64m³-343n³
- 9. Without actually calculating the cubes, find the value of each of the following

SCIENCE

i) $(-12)^3 + (7)^3 + (5)^3$ ii) $(28)^3 + (-15)^3 + (-13)^3$

Task-1

ART INTEGRATED PROJECT

Art-integration is a cross-curricular pedagogical approach that utilizes various aspects and forms of art and culture as the basis for learning of concepts across subjects. The objective of art integrated learning (AIL) is not to promote arts and skills of arts but to use art as a tool to teach other subjects. Art education at this stage needs to link with all subjects such that it becomes a tool of teaching-learning concepts. Art can play an effective role in strengthening the child's curiosity, imagination, and sense of wonder.

TOPIC Sikkim FLORA and FAUNA INSTRUCTIONS

- The project should be neat. Borders should be made
- At the back of the A4sheet write your name, class and roll number.
- A4 size sheets should be of the same colour.

Task- 2

Complete Science practicals as discussed in class in your practical file.

Task - 3

Make a systematic chart of all the important formulas and graph for motion.

Task - 4 Do worksheet.

SOCIAL STUDIES

A. Project

Students will make a project about the disasters which have struck Sikkim

The project should consist of 10- 12 pages. Following points to be followed:

- ✓ Name, Class and Roll No. of the student.
- ✓ Index should be neatly prepared.
- ✓ Paste political map of India and mark sikkim (after index)
- ✓ Paste black and white/coloured pictures.

✓ Size of the pictures should be symmetrical.

✓ Conclusion

✓ References to be cited.

B. Assignments- Will be sent on SOFOS

MARKETING & SALES

Visit a Local Shop or Market Stall

Task:1

Visit a nearby general store, bakery, or vegetable vendor and observe:

- Product display
- Customer interaction
- Pricing strategy
- Payment methods
- Popular products

Report Format:

- Name and type of shop
- 5–7 observations
- Suggestions to improve marketing or sales
- Include a hand-drawn layout of the shop if possible

Interview a Small Business Owner

Task:2

Talk to a small entrepreneur (e.g., a tailor, a food vendor, or a tutor). Ask questions like:

- What product/service do you offer?
- How do you attract customers?
- Do you use any discounts or offers?
- What challenges do you face in selling?
- Any future plans to grow?
 Submit: A 1-page interview summary in your own words.

A.I (Artificial Intelligence)

Part A: Employability Skills

1. Communication Skills-I

• Write a dialogue between two friends discussing the impact of AI on daily life, focusing on effective communication.

• Prepare a short presentation (5 slides) on the importance of communication skills in the tech industry.

Part B: Subject-Specific Skills

1. Al Reflection, Project Cycle, and Ethics

• Write an essay on how AI is transforming various industries, such as healthcare, education, and transportation.

• Create a mind map illustrating the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modeling, Evaluation, and Deployment.

Email the holiday homework to sakshihps24@gmail.com

Submission Guidelines

• Format: Compile all written tasks in a neatly organized folder or digital document.

• Deadline: Submit the completed homework on the first day after the holidays.

• Evaluation: Assignments will be assessed based on creativity, accuracy, completeness, and adherence to guidelines.