



GREEN FIELDS SCHOOL

A-2 SAFDARJUNG ENCLAVE

NEW DELHI-110029



CLASS IX

HOLIDAY HOMEWORK 2026-27



Dear Students,

As the summer sun begins to shine, I wish you all a vibrant and joyful summer break! May these coming weeks be a time for relaxation, adventure, and making wonderful memories.

To keep your minds sharp and curious, we have prepared some creative summer challenges, including outdoor experiments, reading logs, and art projects to explore. We encourage you to spend quality time with your families, pursue your passions, and stay healthy and active.

We can't wait to see you return to campus with bright smiles and renewed energy!

Have a fantastic summer!

**Principal,
Green Fields School**



ENGLISH

The Vocabulary Vault

1) Task: Learn one new word every day throughout the summer break. Maintain a dedicated 'Vocab Diary'. For each word, write its Meaning, Part of Speech, and Usage (frame a creative sentence).

Submit your completed diary on the first day of school after the vacation.

2) Task: Write a detailed Descriptive Paragraph (approximately 250–300 words) on the state of Sikkim. Your writing must cover the following sub-topics:

- **People & Tribes:** The harmonious blend of Lepchas, Bhutias, and Nepalese.
- **Culture & Cuisine:** Traditional lifestyle and famous dishes like Momos, Thukpa, and Chhurpi.
- **Festivals & Literature:** Celebrations like Losar and Maghe Sankranti, and local folklore.
- **Architecture & Tourism:** Iconic sites such as the Rumtek and Pemayangtse Monasteries.
- **Flora & Fauna:** The rich biodiversity of Khangchendzonga National Park and the state's diverse wildlife.
- **Art & Handicrafts:** Exquisite Mask Dances (Chaams) and traditional cottage crafts.



ENGLISH

The Lit-Club: Reading & Speaking

3)Task: Choose and read at least one novel from the list below:

- Harry Potter series – J.K. Rowling
- The Percy Jackson series – Rick Riordan
- The Giver – Lois Lowry
- Wonder – R.J. Palacio
- Here,
- There and Everywhere – Sudha Murthy
- Wise and Otherwise – Sudha Murthy

Note: (You may choose any other book if these are unavailable.)

Follow-up Activity: Upon school reopening, a Speaking Skill Assessment will be conducted based on your chosen book. Be prepared for:

- Role Play of your favorite character
- Alternate Ending: Pitch a different conclusion to the story.
- Character Analysis: Speaking about the protagonist's journey.

हिंदी

निर्देश- सभी छात्र कार्य सुंदर लेख और मात्राओं का ध्यान रखकर लिखना ।

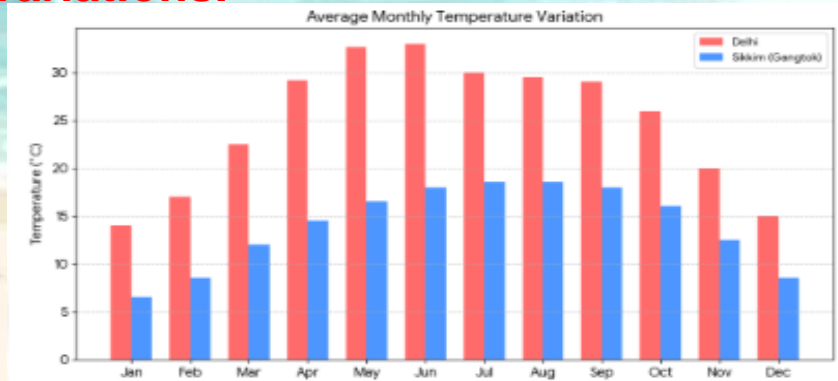
- 1) किन्ही पाँच मुहावरों का चित्रसहित प्रयोग करके दीवार पर टाँगने का बनाइए।
- 2) सिक्किम राज्य की संस्कृति, भौगोलिक स्थिति, भाषाएँ, त्योहार, खानपान, कला और शिल्प, संगीत और नृत्य, पर्यटन स्थल तथा प्रसिद्ध कवि का रंग - बिरंगे चित्र सहित स्पायरल बाइडिंग करवाकर 500 शब्दों में पोर्टफोलियो तैयार कीजिए।
- 3) लता मंगेशकर जी के जीवन की महत्वपूर्ण घटनाएँ लैपबुक बनाकर चित्रसहित लिखकर दर्शाईए।
- 4) सुभद्रा कुमारी चौहान, सूर्यकांत त्रिपाठी 'निराला', रामधारी सिंह दिनकर इनमें से किसी एक कवि के साहित्यिक जीवन पर 3-डी चार्ट बनाइए।
- 5) संज्ञा, सर्वनाम, विशेषण, विराम चिह्न इनमें से किसी एक पर चित्र सहित आकर्षक चार्ट तैयार कीजिए।

MATHEMATICS

I. Project Work Interdisciplinary Project - (Choose Any One)

a) Data Handling & Statistics

Rainfall & Temperature Analysis: Collect monthly rainfall and temperature data for Delhi and Sikkim. Plot a double bar graph or histogram to compare the climate variations.



b) Geometry & Mensuration

- Monument Tessellations: Design a tessellation pattern using geometric shapes inspired by Mughal architecture in Delhi (e.g., Humayun's Tomb) and Buddhist monasteries in Sikkim (e.g., Rumtek Monastery).**

MATHEMATICS

2. Written Assignments & Practice

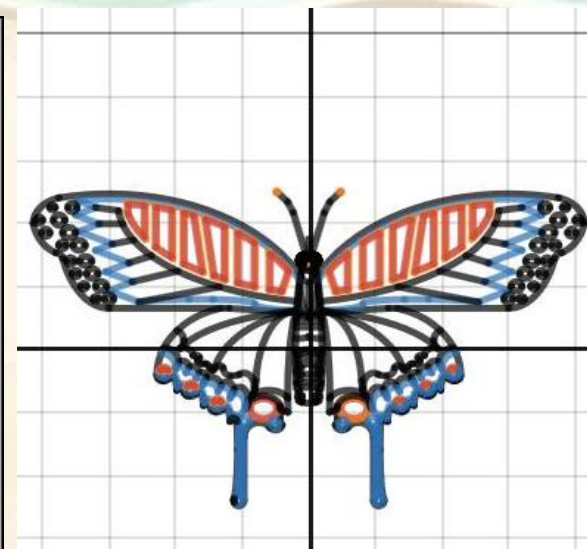
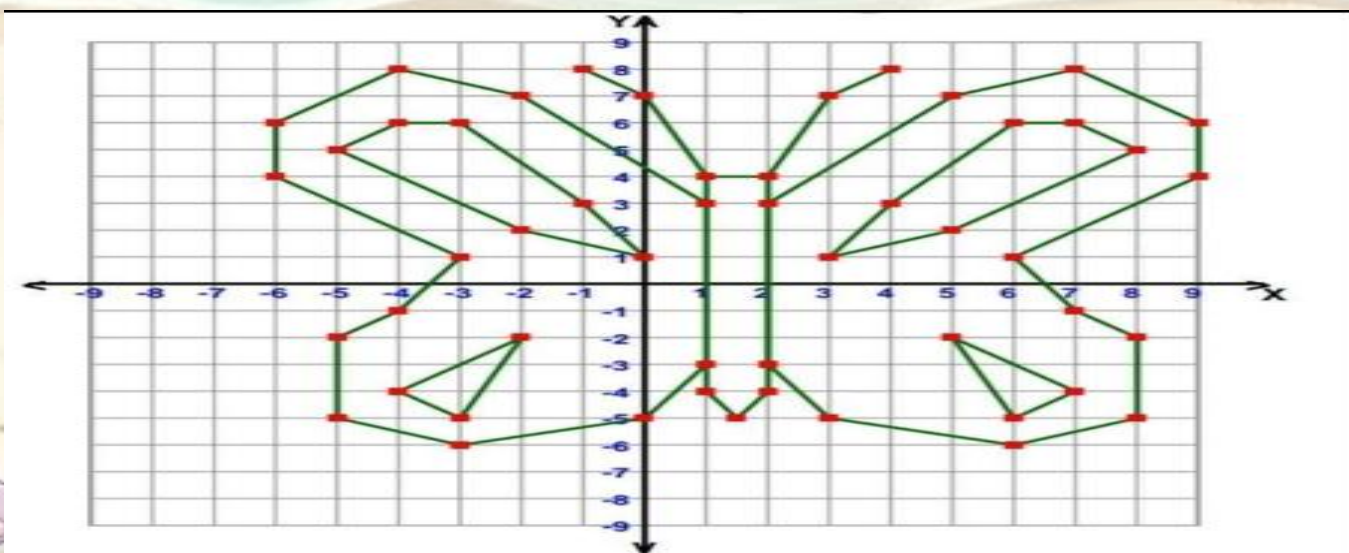
Complete Assignment of following chapters in Assignment Register.

Chapter- 1 Coordinate Geometry

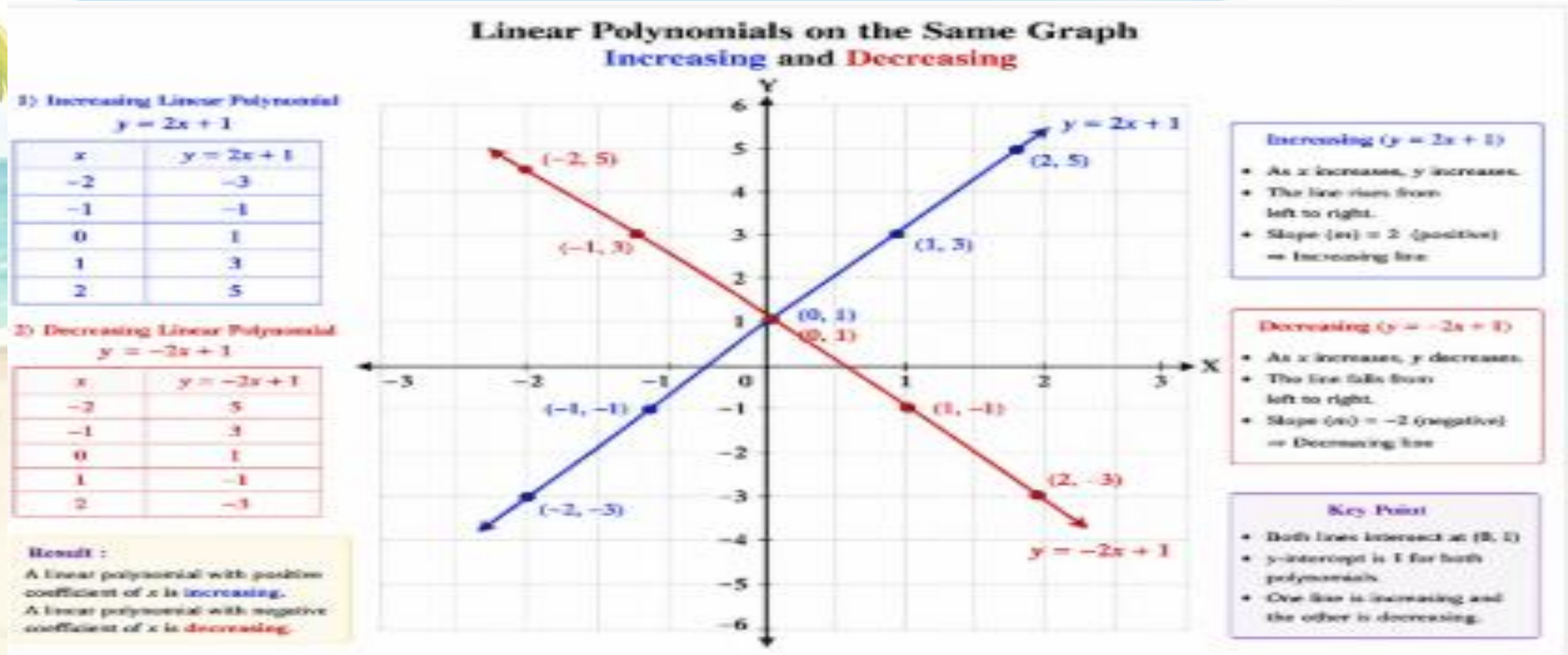
Chapter -2 Linear Polynomials.

3. Subject Enrichment Activities – (LAB FILE WORK)

a) To create a butterfly using coordinate geometry.



b) Increasing and Decreasing Linear Polynomials on the Same Graph



4. Logical Thinking Worksheets:

Do given worksheets on Logical thinking on A4 sheets.

SCIENCE

SUBJECT ENRICHMENT: PRACTICAL FILE

1. To Prepare the true solutions of common salt, sugar and alum separately.
2. To prepare suspensions of soil, chalk powder and fine sand separately in water.
3. To prepare colloids of starch, egg albumin and milk powder separately in water.
4. To prepare stained temporary mount of onion peel .
5. To verify the laws reflection of sound

CHARTS 1) Diseases Caused by Microorganisms (Roll No 1 to 12)

2) Natural Resources Conservation (Roll No. 13 to 24)

3) Separation of Substances (Roll No. 25 to 41)



CHEMISTRY

Roll Number 1-13

Model : Structure of an Atom (Using Waste Material)

Task Instructions

- Select one element and study its atomic structure.
- Create a 3D atom model using waste materials.
- Label all important parts clearly.
- Mention:
 - Name of the element
 - Atomic number
 - Number of protons, neutrons, and electrons
- Prepare a short handwritten explanation (100–150 words) about the element and atomic structure.
- Submit the project neatly on the assigned date.

Materials Suggested (Waste Materials Only):

Old cardboard ,Bottle caps ,Newspaper balls ,Waste wires ,Ice cream sticks ,Used Cardboard,Old buttons ,Plastic lids ,Thread/string ,Empty boxes ,Foil paper scraps ,Used chart paper

BIOLOGY

Roll Number 14-26

Model of Mitosis and Meiosis (Using Waste Material)

Task Instructions

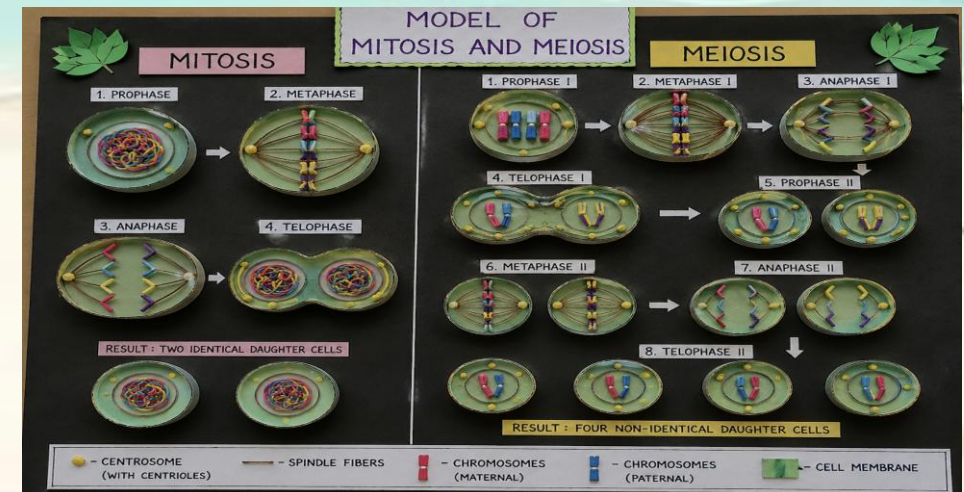
Create a 3D model using waste materials showing:

- **Mitosis Stages:**

- Prophase
- Metaphase
- Anaphase
- Telophase

- **Meiosis Stages:**

- Prophase I
- Metaphase I
- Anaphase I
- Telophase I
- Meiosis II stages
- Label:
- Chromosomes
- Spindle fibers
- Cell membrane
- Nucleus



PHYSICS

Roll Number 27-41

Project : "Motion in the Himalayas"

Students should compile their work in a folder or a neatly bound file using the following headings:

1. *Title Page*

* *Project Title:* Motion and Kinematics: A Journey through Sikkim.

* *Student Information:* Name, Class, Section, and Roll Number.

* *Subject:* Science (Physics) – Art Integrated Project.

* *Academic Session:* 2026-27.

2. *Introduction*

* A brief overview of the "Sister State" Sikkim (geography and terrain).

* The objective of the project: Applying the laws of motion to real-world mountainous travel.

3. *Phase I: Delhi to Bagdogra (Uniform Motion)*

* Data collected regarding flight distance and displacement.

* Numerical calculations for time and velocity.

* *Graph 1:* Distance-Time graph for the flight segment.

4. *Phase II: The Ghat Roads (Non-Uniform Motion)*

* Analysis of why mountain driving involves non-uniform velocity.

* Calculation of acceleration/retardation during the Teesta Valley stretch.

* A comparative table between *Distance* and *Displacement* for the Bagdogra–Gangtok route.

5. *Phase III: Technical Analysis (Nathu La Pass)*

* Interpretation of Velocity-Time graphs in hilly terrains.

* Calculation of the "Area under the Curve" to determine total distance traveled.

6. *Learning Outcomes & Conclusion*

* A short paragraph on what the student learned about the relationship between terrain and motion.

* Reflections on how Physics is visible in everyday travel.

7. *Bibliography / Sources*



Social Science

Theme: Exploring Sikkim & Understanding Disasters

Task 1: Culture Collage of Sikkim Dive into the vibrant world of Sikkim! Create an A3-size collage that captures the spirit of the state. Include: -

Musical Instruments , Festivals, Flora & Fauna

Make it colorful, label each element, and add a 4-line write-up on why Sikkim is called the “Land of Peace and Tranquility.”

Task 2: Hands-on Sikkim - Craft with Pride Choose any one and bring Sikkim’s artistry to life: - **Traditional Jewellery:** Design paper-bead necklaces or earrings inspired by Lepcha/Bhutia styles - **Sikkim Grass Craft:** Weave a small coaster or bookmark using jute/grass strips - **Thangka Painting:** Draw a mini Thangka on A4 with geometric borders and a central motif Add a small tag explaining the craft’s cultural significance.



SOCIAL SCIENCE

Task 3: Disaster Project - 15 Pages Pick any one disaster: Earthquake, Flood, Landslide, Cyclone, or Drought.

Your project file must include: 1. Cover Page: Creative title, Name, Class/Sec, Roll No. 2. Acknowledgement 3. Index 4. Introduction: Define the disaster 5. Causes: Natural + Human factors with diagrams/flowcharts 6. Effects: Impact on life, property, economy & environment - use photos/clippings 7. Prevention & Mitigation: Do's & Don'ts, early warning, community preparedness 8. Case Study from India: One major incident with date, location, damage & rescue efforts 9. Role of Government: NDMA, NDRF, state policies, relief measures 10. Conclusion: Your learnings + "What can I do as a student?" 11. Bibliography: Books, websites, newspapers used

Task 4: Map Work Mark all states and their capitals on a political map of India. Paste it in your file.

Instructions for All Tasks: - Use eco-friendly/recycled material wherever possible - Neatness, creativity, and originality will be graded - Submit in a handmade file with proper headings - Due Date: First week after summer vacations



Information technology

Research & Digital Documentation

Q1) Using Microsoft Word or LibreOffice Writer, prepare a 3-page digital report on: "How Sikkim balances Technology, Tourism and Environment" Your report should include: Introduction to Sikkim Geographic location and climate Organic farming initiatives in Sikkim Role of tourism in the state's economy Use of technology in education, transport, or communication Environmental conservation efforts Presentation Challenge

Q2) Using Microsoft PowerPoint: Create a 6-slide presentation on: "Can Sikkim become India's Smart Eco-State?" Slides may include: Introduction Natural resources Technology adoption Tourism opportunities Challenges Your suggestions Use: Transitions Images/icons SmartArt or charts

Q3) AI + Creativity Task Design a digital campaign poster on: "Keep Sikkim Green, Clean & Smart" Use any design tool like: Canva Microsoft Power Point Include: Slogan Images QR code or awareness message Eco-friendly suggestions



ART

Task A : To draw a comic strip or storyboard on a social theme e.g. , Environmental Protection.

- It should feature small steps and big changes
- Brush pen, sketch pen, poster color, etc. can be used to make it colorful .
- It needs to be colorful and interactive.

Task B : Warli Painting on Terracotta :

- Each student will paint traditional Warli art on an old earthen pots or clay plates.
- To paint use acrylic colors.
- Discover Pinterest's best ideas, get inspired and try out new things.



YOGA

- 1) Practice 5 rounds of Surya Namaskar daily.**
- 2) Do Anulom Vilom Pranayam for 5 minutes**
- 3) Practice 5 Asanas daily including forward bending. Backward bending and balancing Asanas.**



MUSIC

Complete the following in your music notebook:

- 1. Write the Swara - 7 Shuddh Swaras - 5 Vikrit Swaras**
- 2. Write 10 Alankars**
- 3. Write Raag Bhupali description with Arohan, Avrohan, and Pakad**
- 4. Write a Chhota Khayal Bandish in Raag Bhupali – “Naman kar chatur” with notation**



HAPPY SUMMMER HOLIDAYS