



**D. GOENKA
SCHOOLS**



CLASS IX



**HOLIDAY
ENGAGEMENT 2024**

Dear Students

As the warm embrace of summer envelops us, let us pause and reflect upon the words of Helen Keller: "Life is either a daring adventure or nothing at all." Indeed, if life were devoid of challenges and uncertainties, it would lose its essence, its purpose, much like a ship adrift in calm waters.

The balmy months of May and June offer us an opportunity for self-reflection, a time to rejuvenate our spirits and nourish our minds. Amidst the tranquil respite, we find opportunities for familial bonds to flourish, for ventures into unexplored realms, for passions to be pursued and dreams to be realized.

It is said that an umbrella, a book, and the mind only serve their purpose when open! Let us heed these words and embrace the boundless possibilities that lie before us. Let our minds unfurl like the petals of a blooming flower, eager to absorb the wisdom and experiences that await us in the coming days.

The Summer Holiday Engagement of 2024 beckons with a unique purpose—a purpose to embark on a journey to elevate Social Emotional and Experiential Learning, as well as foster Financial Literacy! Let us immerse ourselves in delightful and enlightening endeavors to equip our youngsters with invaluable financial acumen and nurture empathy. Each challenge, each endeavor, will be a stepping stone towards personal growth and enlightenment.

As we engage ourselves in these activities, let us not forget the joy of learning, the thrill of exploration, and the warmth of companionship. Let us involve our families, for in their support and guidance, we find strength and inspiration.

I hold in high regard the creativity and individual strengths of each and every one of you. Your efforts, your contributions, are invaluable in shaping our collective journey.

Hope this Goenkan initiative of the Summer Holiday Engagement 2024-25 is a testament to our capacity for growth and is replete with learning and laughter.

Let us redefine who we are and embrace the spirit of collaboration, innovation, and compassion.

Dr. Sanchita Mukherjee
Principal

ENGLISH

SELF ASSURANCE AND THE HUNGER FOR KNOWLEDGE

In a world that thrives on diversity, we encourage you to be open minded and inclusive.

We will help you discover your passions and interests, guiding you towards activities that align with good values and varied experiences.

Do away with monotony and explore your English literature books as they hold the mirror up to different aspects of life and people.

Instructions : Use 2 pages of your blue Literature notebook. Make a neat and attractive research project on any ONE of the following:

1. Use 2, A4 pages to make a pictorial collage about a vacation, a recent excursion, or an adventure holiday titled TRAVEL : A CATALYST FOR LEARNING. The collage should have 2/3rd written component including greetings (Hola/Swadhika/Bon jour/Namaste) local cuisine / street food tasting, information, anecdotes, sightseeing, observations highlighting your experience as being an enriching one.
2. Use 2 pages to present an analysis of Robert Frost OR W B Yeats OR Vikram Seth as a famous poet. Find some of the famous poems / lines written by this poet on poemhunter.com. Add pictures and details about the poet's life.
3. Read about Santosh Yadav (the only woman to have climbed Mt. Everest twice) from page 99 in your textbook: Beehive. Imagine that you are Santosh Yadav. You have been invited to speak at an All India Girls Athletic Meet, as Chief Guest. Write a speech of about 2 pages to motivate the girls to think and dream big and make an effort to fulfill their dreams, not allowing difficulties or defeat to discourage them.
4. As Shakespearean scholars, use 2 pages to create a profile of William Shakespeare. Put pictures, interesting information and a note on the impact of his writings on the modern world.

Use one more page to make a list of famous quotes from Shakespearean plays. (This list will be very useful in writing debates or speeches or even creating an impression on people!)

5. PAUSE AND REFLECT

Gratitude Journaling!!

No matter how busy it gets, take some time to appreciate the things you have in your life. This can help you shift your focus from what you lack to what you already have.

Make a list of twenty things that make you happy. Write a sentence about each one. Include your reason for being grateful.

Important Note: The homework must be original and the proper references should be made in accordance with the task. Neat presentation would be highly appreciated. Do NOT use stickers / pearls / stones/ glitter glue or tape. Avoid any 3 D art effects. This work is to be done in the literature notebook and it will be marked by the teacher.

CURATED COMPILATIONS FROM ENGLISH DEPARTMENT

LET US DO AWAY WITH MONOTONY AND EXPLORE THE WONDERFUL WORLD OF FICTION. A GREAT WORK OF FICTION CAN ALLOW US TO SEE THE TRUTHS THAT MAY BE HIDDEN FROM US IN REAL LIFE.

| | |
|------------------------|---------------------|
| The Catcher in the Rye | J D Salinger |
| Lord of the Flies | William Golding |
| The Thorn Birds | Colleen Mc Cullough |
| Gone with the Wind | Margaret Mitchell |
| The Godfather | Mario Puzo |
| Kane and Abel | Jeffrey Archer |
| Siddhartha | Herman Hesse |
| The Kite Runner | Khaled Hosseini |

We should look for books that make us think harder, not easier. Personal growth is tucked away in the pages that question our world view !

| | |
|---------------------|-----------------|
| Think and Grow Rich | Napolean Hill |
| The Power of Now | Eckhart Tolle |
| Freakonomics | Steven D Levitt |
| Vagabonding | Rolf Potts |

CLASSIC FAVOURITES

TOP FIVE AMERICAN NOVELS

| | |
|-----------------------|---------------------|
| Of Mice and Men | John Steinbeck |
| Moby Dick | Herman Melville |
| The Scarlet Letter | Nathaniel Hawthorne |
| The Great Gatsby | F Scott Fitzgerald |
| To Kill a Mockingbird | Harper Lee |

TOP FIVE BRITISH NOVELS

| | |
|-----------------------|--------------|
| Pride and Prejudice | Jane Austen |
| Wuthering Heights | Emily Bronte |
| Mayor of Casterbridge | Thomas Hardy |

Oliver Twist
Mill on the Floss

Charles Dickens
George Elliot

TOP FIVE BOOKS BY INDIAN AUTHORS

A Suitable Boy
God of Small Things
Train to Pakistan
Difficult Daughters
The Namesake

Vikram Seth
Arundhati Roy
Khushwant Singh
Manju Kapoor
Jhumpa Lahiri

TOP FIVE BOOKS SET IN INDIA

The Far Pavilions
The City of Djinns
Shantaram
The White Tiger
City of Joy

M M Kaye
William Darymple
Gregory David Roberts
Aravind Adiga
Dominique Lapierre

TOP FIVE MOVIE/BOOK ADAPTATIONS

The Godfather
Forrest Gump
The Shawshank Redemption
Murder on the Orient Express
The Notebook

Mario Puzo
Winston Groom
Stephen King
Agatha Christie
Nicholas Sparks

MATHEMATICS

Understanding the Beauty of Mathematics Through Square Roots

Mathematics is often regarded as a language of patterns and structures that govern our universe. Among its many fascinating aspects lies the concept of square roots, which not only holds mathematical significance but also unveils the beauty of numerical relationships.

(A) Objective: The objective of this assignment is to explore the concept of square roots through the creation of a square root spiral and research into its mathematical properties and real-world applications.

Instructions:

1. Create Your Square Root Spiral:

Draw a square root spiral (at least till 10) on an A-4 or A-3 sheet of paper.

Ensure accuracy using a ruler and compass.

Be creative!!

Add colours, patterns, or designs to make your spiral visually appealing.

2. Research and Learn:



- Investigate the history and significance of the square root spiral.
- Explore its mathematical properties and connections to square roots.
- Find examples of square root spirals in art, architecture, and nature.

3. Real-world Applications:

- Identify at least one real-world application of square roots. Explain how they are used and why they are important in that context.

4. Presentation:

- Prepare a project in a scrapbook (10-12 pages) or a Powerpoint Presentation(10-12 slides) about your square root spiral and research findings and upload the **PPT** in your Math GCR. or submit the **project file** in the first week of July.

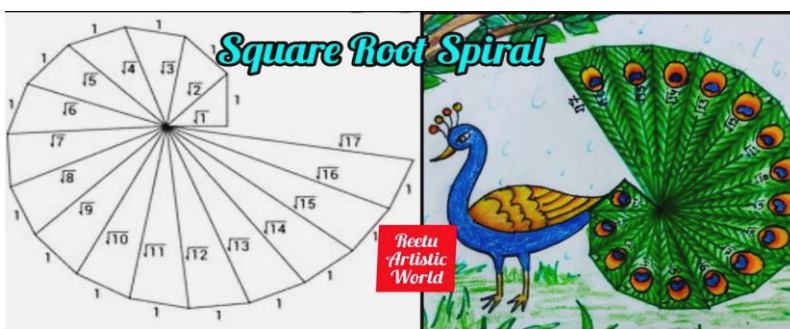
5. Submission Details:

- The project work shall be assessed on the following parameters - content, illustrations, originality and creativity.

Some examples for your reference are given below.

Have fun with this assignment!
Be creative as you explore the world of square roots.

(B) Practice Sums : (To be done in a small orange notebook. Kindly refer to the document given below)



[HHW MATHS PRACTICE SUMS \(2024-25\) \(Click Here\)](#)

SCIENCE

Physics

1) Students are required to submit a colourful chart on any one of the following topics

1. Applications of sound to musical instruments.

2. Mysteries of space
3. Advancements in Science and Technology
4. Robotics
5. The impact of artificial intelligence on people's lives

II) Construct a working model on the topic – Sustainable Energy Resources.

You will be required to present this project with your team members.

OR

Chemistry

I) Design a project in the form of powerpoint presentation of group of 4-5 students on anyone of the following topics:

1. Bose Einstein condensate and Plasma State of matter.
2. Evaporation in our everyday life.

You will be required to present this project with your team members.

II) Construct a working model on the topic – Environmental Health (Reduce, Reuse and Recycle)

You will be required to present this project with your team members.

OR

Biology

A. Students are required to submit a PowerPoint presentation in a group of 4-5 students on the topic /activity mentioned below.

‘Osmosis’

The following points have to be considered and used as guidelines to do the given activity:

- What is meant by Osmosis?
- Factors on which it depends and different types of solution (Isotonic, Hypotonic & Hypertonic).
- Activity- To study osmosis by raisins or apricots.

Method :

1. Take 5-6 raisins or apricots and keep them in a bowl with some water for 3-4 hours.
 2. Take out these raisins/ apricots and keep them in a bowl having salt (2 tea spoons) mixed with water.
 3. Now record your observation, in both the cases, in a tabular form.
 4. Write the conclusion of the activity also.
 5. Click your 2- 3 pictures while doing this experiment and upload them as a collage of the group, to your PowerPoint presentation.
- Make minimum 10 slides and maximum 15 slides, including pictures, video(s) and examples related to the topic.
 - The first slide (format) of your group PPT presentation should be as follows:-

- o GROUP MEMBERS
- o ROLL NO. & CLASS WITH SECTION
- o DATE

B. Read newspapers daily and look for articles related to Science. Cut and paste the articles in a scrapbook (10 - 15 pages)

C. Cell model construction: Construct model of a DNA or chromosome or mitochondria or chloroplast using material of your choice (eg :- Clay, Styrofoam, Cardboard). Label the colour code, the key structures within the parts. Provide a brief explanation for each labeled structure, highlighting its function.

Note: The Holiday engagement work will be assessed on the following parameters - content, accuracy, originality, presentation and creativity.

SOCIAL SCIENCE

CBSE PROJECT- Disaster Management

Objectives: The main objectives of giving project work on Disaster Management is to: create awareness about different disasters, their consequences and management, preparedness in advance to face such situations, ensure their participation in disaster mitigation plans, and community services. The project work will help in art integration, enhancing the Life Skills of the students.

Topics: Earthquakes and mitigation plans **OR** Flooding and mitigation plans.

Material/Resources Required:

A-4 size or file sized simple sheets, recycle waste paper for Cover page, pictures from the internet, other stationary material. 10-14 handwritten pages. Once the project is completed, present it in a small file folder.

Instructions:

The project work should include- Title/ cover page, list of content, Introduction of the topic, causes and effects, precautions to follow during the disaster, mitigation plans, students role in community services.

The Project work will be assessed on the following- content accuracy, originality, Presentation and creativity.

History

Materials Required

- a) History textbooks
- b) History notebooks
- c) Internet

- d) Glue
- e) Coloured pens
- f) Any other craft material

1. The French Revolution saw the rise of Newspapers describing the events of each day and week. Collect pictures and information on any one event and write a newspaper article.

OR

Conduct an imaginary interview with important personages like, F.A.Voltaire, J.J. Rousseau, Charles Montesquieu, John Locke and their statements.

Work Specification

- a) The holiday engagement work should be done and presented aesthetically
- b) Use of internet only
- c) Use of AI ONLY for presentation and NOT for the entire holiday engagement work

Political Science

Materials/Resources Required:

- a) A3 size sheet (coloured)
- b) Pictures
- c) Coloured Pens
- d) Internet
- e) Glue

Instructions:

1. the year 2024, India has entered the election year. As citizens of the country, it is important that we are politically aware about elections and the making of the Indian government.

Make a poster on the election process under the following headings:

- a) Name of a Political Party (imaginary)
- b) Party Symbol (imaginary)
- c) Party Leaders (imaginary)
- d) Party Motto (imaginary)
- e) Party Manifesto.

Work Specification:

The poster should be done aesthetically on A3 size sheet

Economics

Material/Resources Required:

Coloured pens and glue.

Instructions:

- 1. The Green Revolution played a pivotal role in Indian agriculture. Compare and contrast the

condition of Indian agriculture before the Green revolution and after the Green revolution along with colourful pictures. Also, Mention the changes in Agricultural Technology, Production and yield.

2. 'The Green Revolution created income disparities among different states of India.' Comment
(50 words)

Work Specification:

To be done aesthetically in the Economics notebook.

Reference: Ch 1 : The Story of Village Palampur(NCERT)

Geography

Any one of the following-

1. Prepare a **collage on the contribution of ancient India to the world** and give an appealing and appropriate slogan for the same.

Material required: A-3 size sheet, colours (any medium), pictures sketched/ drawn and collected online.

Assessment- based on content, presentation, overall task, and authenticity. This activity will help you appreciate the history of India and create a feeling of pride. Also, it will allow you to use your imagination and creative skills.

2. Prepare a **travelogue based on places of tourist interest** (at least 5-6 pictures) for a particular state.

You may select **any one state** from the following list- Rajasthan, Tamil Nadu, Sikkim, Kerala, Odisha, Uttar Pradesh, and Bihar.

You must **write at least 30-40 words for each place** mentioned.

Material required

Appropriate pictures, coloured pens, glue, and other stationery items. Sheet of paper (as per your choice)

You may fold this sheet and present it as a travelogue.

Please **DO NOT MENTION** travel arrangements and place/s to stay.

Assessment- on presentation and content and overall picture.

Submission of work: 5/7/24.

NOTE- This work will be evaluated and credits will be given for internal assessment.

3. Complete all your pending tasks related to Chapter 1 and map work in your notebook.

HINDI

1. 'दुःख का अधिकार' पाठ के आधार पर लेखक और बुढ़िया के मध्य अपनी कल्पना से संवाद (बातचीत) लिखिए। चित्र भी बनाकर अपने कार्य को आकर्षक बनाइए।
2. बर्चेद्री पाल का जीवन और उनके पर्वतारोहण की कहानी सभी भारतीय के लिए प्रेरणादायक है। उनके योगदान को समझना और मानना हमारे लिए सम्मान की बात है। 23 मई 1984 को बर्चेद्री पाल ने माउंट एवरेस्ट को छूने का इतिहास रचा और माउंट एवरेस्ट पर पहुंचने वाली पहली भारतीय महिला पर्वतारोही होने का सम्मान प्राप्त किया। इन्हें भारत सरकार द्वारा पद्मश्री और पद्मभूषण पदक से सम्मानित किया गया ।

बर्चेद्री पाल के बारे में निम्न बिंदुओं पर ध्यान देते हुए जानकारी एकत्रित कीजिए और चित्रात्मक प्रस्तुति दीजिए।

1. **बर्चेद्री पाल का जीवन** : उनके जीवन का संक्षिप्त इतिहास, उनका बचपन, शिक्षा उनके पर्वतारोहण से संबंधित कहानी
 2. **पर्वतारोहण का सफर** : उनके पर्वतारोहण की कहानी, उनका दृढ़ निश्चय और उनके यात्रा के दौरान का अनुभव
 3. **महिला उत्थान** : महिला शिक्षा के लिए उनका योगदान
 4. **समाज में परिवर्तन** : उनकी सफलता के बाद समाज में कैसे परिवर्तन हुआ।
 5. **साहसिकता और परिश्रम**: साहसिकता परिश्रम और अदम्य संघर्ष।
3. ग्रीष्मकालीन अवकाश के दौरान अपने अनुभवों को साझा करते हुए अपने मित्र को पत्र लिखिए। जो 100 शब्दों से कम न हो। इस पत्र में आप अपने किसी यात्रा के बारे में, अपने किसी विशेष मित्र के बारे में या किसी भी अन्य विषय की जानकारी दे सकते हैं।

सभी क्रियाकलाप एक सुंदर फोल्डर में प्रस्तुत करें।

सामग्री: A3 , A4 के पेपर , रंगीन पेन आदि।

कार्य प्रस्तुत करने का अंतिम समय 10 जुलाई 2024 है।
इनके अंक आंतरिक मूल्यांकन में सम्मिलित किए जायेंगे।

ARTIFICIAL INTELLIGENCE

Drowsiness Monitor

An AI enabled system to ensure the safety of passengers and pedestrians by detecting drowsiness of the driver. This system will detect the drowsy drivers.

OR

AI Uniform Inspector

A computer vision based inspection system to check on students' uniforms automatically before students enter the classroom. Returns the result as a percentage of the accuracy of the uniform.

Submit screenshot of the preview page.

Resources: <https://teachablemachine.withgoogle.com/train/image>

