



**D. GOENKA  
SCHOOLS**



**CLASS X**

**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 endeavours to equip our youngsters with invaluable financial acumen and nurture empathy. Each challenge, each endeavour, 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

## INVEST IN YOURSELF!

### FOCUS ON INTRINSIC MOTIVATION.....

The summer assignment in English will help you to enhance your educational quotient!

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:

### CHOOSE ONLY ONE TOPIC FROM THE FOLLOWING LIST:

1. Journaling encourages us to be observers of the world, to be reflective of our experiences, and of course, to become expressive writers. Use 2 pages of your notebook and create a Personal Vision Board of words, quotes, and a collage of images and write ups of the person that you WANT to become.

2. Use 2 pages to present an analysis of Robert Frost OR Walt Whitman OR Carl Sandburg as a famous American Poet. Find some of the famous poems / lines written by this poet on poemhunter.com. Add details about the poet's life.

3. Read the section, Glimpses of India, on page 85 of your textbooks: First Flight. Based on this choose any ONE of the following tasks:

Choose a destination in India which is popular for its tourism. Create 2 pages about this place which includes : things to do / places to see / food trail/ places or persons of interest. Add relevant pictures and information. Give your reason for wanting to visit. Link an eco -friendly attitude with exploration and enjoyment.

### OR

Collect information about tea and coffee: their evolution as a drink, their beneficial qualities and their cultural relevance. Use 2 pages of the notebook to make a comparison between the two. Include history, brewing process, recipes, medicinal values and any other interesting fact.

4. Use 2 pages of your notebook and prepare a Book Review on: Diary of a Young Girl by Anne Frank.

Include the following in your Book Review:

- Theme / analysis
- Important features of the characters
- Relevant and interesting incidents: How you were impressed by the book.

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 / stones or beads. Avoid glitter and sticker tape.

### **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	Charles Dickens

Mill on the Floss

George Elliot

#### TOP FIVE BOOKS BY INDIAN AUTHORS

A Suitable Boy

Vikram Seth

God of Small Things

Arundhati Roy

Train to Pakistan

Khushwant Singh

Difficult Daughters

Manju Kapoor

The Namesake

Jhumpa Lahiri

#### TOP FIVE BOOKS SET IN INDIA

The Far Pavilions

M M Kaye

The City of Djinns

William Darymple

Shantaram

Gregory David Roberts

The White Tiger

Aravind Adiga

City of Joy

Dominique Lapierre

#### TOP FIVE MOVIE/BOOK ADAPTATIONS

The Godfather

Mario Puzo

Forrest Gump

Winston Groom

The Shawshank Redemption

Stephen King

Murder on the Orient Express

Agatha Christie

The Notebook

Nicholas Sparks

## MATHEMATICS

### Part-A

#### **Material/Resources Required:**

A scrap book or A-3 or A-4 sheets, coloured pens, glue.

#### **Instructions:**

Choose any one topic for your project work.

Project in a scrapbook (12 to 15 pages) to be submitted to the subject teacher or a PPT of 12 to 15 slides to be uploaded in your respective Math GCR.

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

#### **Work Specification:**

(A) ROLE OF MATHEMATICS IN MEDICINE AND LIFE SCIENCES - Math is a crucial part of medicine. All the graphs, equations, statistics, and general Math help us to understand important aspects of human and veterinary medicine, biology, and science in general.

Elaborate with the help of relevant information and pictures/graphs/tables.

(B) APPLICATIONS OF ALGEBRA IN DAY-TO-DAY LIFE - Have you ever wondered how Algebra may be applied to solve real-life problems? We regularly see people using Algebra in many parts of everyday life, examples - Outdoor Landscaping, Home Improvement, Logical Thinking, Technology, Business and Finance Management.

Elaborate any two from the above examples with the help of relevant information and pictures/graphs/tables.

### **Part B**

Following questions to be done from the reference book (R D Sharma) in orange notebooks, to be submitted after the summer break. Kindly refer to the document.

Ctrl + Click on the following link:

[CLASS X-HHW SUMS-2024-25](#)

## **SCIENCE**

**Part A:** Make any working model related to any topic of Science.

**Part B:** Choose any one out of the following :

### **Physics**

I) Design a Project and present its report for any one of the following topics:-

- (i) Optical Fibres- Novel applications.
- (ii) Optical phenomena in nature-the Physics behind them.
- (iii) The impact of artificial intelligence on people's lives

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

**OR**

### **Chemistry**

Design a project in the form of powerpoint presentation of group of 4-5 students on any one of the following topics:

1. Corrosion of metals & Rancidity of food.
2. Electrolysis and its uses.

**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**

Make an investigatory project report in the form of powerpoint presentation (ppt) on any five Lung diseases, emphasizing the following points:

(i) Diseases and their causes (ii) Their Symptoms (iii) Precautionary measures, and (iv) Treatment

- Your ppt should consist of 10- 15 slides
- The first slide should have group member names, class, section and roll numbers

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

Model Construction: Construct 3D model of sphygmomanometer/ Artificial Kidney / Dental Carries / Alveoli using materials of your choice (eg :- Clay, Styrofoam, Cardboard). Label the colour code the key structures within. 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 Work

**Objectives:** The overall objective of the project work is to help students gain an insight and understanding of the theme and see all the Social Science disciplines from an interdisciplinary perspective. Students will be able to apply their prior conceptual knowledge that they have learnt over the years in order to prepare the project report. If required, students may go out, collect data and use different primary and secondary resources to prepare the project. The project work will help in art integration, enhancing the Life Skills of the students.

### Topics of CBSE Project -

Social Issues

OR

Sustainable Development

### Material/Resources Required:

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

### Instructions:

You may use information on the given topics from the internet.

**Sustainable development** is based on optimum and judicious use of resources, their conservation; reuse, reduce and recycle resources; sustainable use of waste generated by a number of factories.

**Social Issues** - Any one of the following social issues- poverty, child labour, gender inequality, unemployment, caste, literacy, hunger, dowry system can be taken up. You can present your project to discuss the topic, prevailing conditions and solutions to tackle the problem.

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

**Work Specification:**

The project work should include- Title/ cover page, list of content, Introduction, main content, conclusion.

**Date of Submission: 1st Week of July.**

**Political Science**

**Material/Resources Required:**

1. Political Science notebooks
2. Political Science Textbooks
3. Internet
4. Glue
5. Coloured Pens

**Instructions:**

Q 1-Conduct a research on **any 2 National Political Parties** and **any 2 Regional Political Parties** and record your research in your political science notebooks under the following heads:

- a) Party name
- b) State to which they belong, Party symbol
- c) Who are the leaders
- d) When was it founded
- e) Party motto

Q 2- Complete the questions of Chapter 2- Federalism given in your GCR, in your political science notebooks

**Work Specification:**

1. Aesthetically done in notebooks
2. Presentation is a must
3. Specify question numbers



## History

Make a PowerPoint Presentation on **any one** of the following topics:

1. Development of Indian Industries in Pre-Independence India.
2. Advertisements used by manufacturers in British India.

### **Instructions:**

- Read NCERT Chapter:4 'The Age of Industrialisation' and research the related content thoroughly.
- PPT should not be more than 15 slides.
- Use Canva for making PPT
- Enhance PPT using real photographs and excerpts and newspaper cuttings of that period.

**Date of submission: 3rd July 2024**

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

## Rubrics

**Content-5 Presentation-4 Timely submission -1**

# HINDI

[विश्व स्तर पर हिंदी का भविष्य]

इसी को ध्यान में रखते हुए विश्वस्तरीय धारा पर हिंदी के भविष्य को लिखते हुए हिंदी के % को रंगों के माध्यम दर्शाए।

कृपया इसे एक फाइल में ही  
बनाएं जिसके एक भाग पर  
पिक्चर लगाने के लिए  
पर्याप्त जगह हो |

इसमें निम्न जानकारियां होनी

चाहिए -

- विश्व की भाषाओं में इसका स्थान क्या है ?
- हिंदी के प्रसार में सबसे बड़ा योगदान किसका है ?
- भविष्य के लिए कौन सा कदम उठाना सही |
- निष्कर्ष हेतु आपके विचार

[2पथेर पांचाली फिल्म को अपने दोस्तों या परिवार के संग देखें और निम्न बातें लिखें-

निर्देशक . की जीवनी

निर्देशक . की कठिनाइयाँ

फिल्म . की विशेषता

[3 हरिहर काका पाठ का सारांश अपने शब्दों में लिखिए 250] शब्दों में

# ARTIFICIAL INTELLIGENCE

## Natural Language Processing

Take your favourite rhyme as corpus and perform Text Normalization and then calculate TFIDF of each term. Write 2-4 terms which have highest TFIDF Value.

Submit the report.

AND

Prepare a video presentation on three domains of AI demonstrating applications relating to each domain.

Submit a hard copy of the presentation slides. Last page must contain the QR code of your video saved online in google drive or youtube. In case you use google drive make sure that you give Editor access to everybody who has the link.

Reference: <https://www.youtube.com/watch?v=D8JV3w4TOVw&t=85s>

