



SUMMER HOLIDAY HOMEWORK(2023-24)

CLASS X

SUBJECT - ENGLISH

- Read the chapter Glimpses of India from 'First Flight'
- Take up any state of India and make a PPT on its Culture, Climate, Soil, Crops, Festivals, Traditional Dresses, Cuisine etc. Include handmade sketches and computer graphics.
- You may also make a collage of the pictures and sketches
- Solve previous years' question papers (Unseen passages and Grammar only). Make a separate notebook/register for the same.



SUBJECT - HINDI

- 1- दधीचि, कर्ण आदि किन्हीं तीन पौराणिक पात्रों की दानवीरता के विषय में जानकारी प्राप्त करके उसे लघु-कथा रूप में व्याकरण कॉपी में लिखें।
- 2- पुस्तक-समीक्षा हेतु महादेवी वर्मा की प्रतिनिधि कहानियों में से प्रथम पाँच कहानियों का पठन-पाठन करें। इसके अतिरिक्त संस्कृत श्लोकों का भी अभ्यास करें।
- 3- सृजन तथा चिंतन पर आधारित कार्यपत्रिका (CCT Worksheet) करें। (In Google Classroom)

SUBJECT- FRENCH



- Ecrivez le synopsis d'un roman en français dans votre cahier.
- Décrivez vos plans futurs dans votre cahier. (à peu près 80 mots)

SUBJECT – SANSKRIT

- 1.संवाद-लेखनम् -कस्यचित् पर्वतीयस्थलस्य/दर्शनीयस्थलस्य यात्राम् वर्णयन् मित्रेण सह वार्तालापम् दश-दश वाक्येषु संस्कृतेन लिखत । यथासम्भवम् क्त्वा, तुमुन्, ल्यप् प्रत्ययान् प्रयुज्य वाक्यानि रचयत ।

(A-4/A-3 Size Pastel Sheet)

- 2.रूपाणि लिखत स्मरत च - शब्दरूपाणि-, मुनि, साधु, गच्छत्, गुणी, विद्वत्, अस्मद्, युष्मद्, धातु- रूपाणि- परस्मैपदी अस् -, कृ, गम्, दृश्(पञ्चसु लकारेषु) ; आत्मनेपदी -सेव्, लभ्, रुच् (लट्, लृट् लकारः च (सर्वम् कार्यम् कक्षा कार्यपुस्तिकायाम् लिखत स्मरत च।-
3. अप्रेल/मई कार्यपत्रिकायाः सर्वम् कार्यम् उत्तर-पुस्तिकायाम् लिखत स्मरत च।



SUBJECT - PHYSICS



- Make a working model/experiment demonstrating the phenomenon associated with light (reflection/ refraction/ scattering/ dispersion etc.) and upload the video/pdf in the Google Classroom.
- Complete the assignment for the month of May-June, which will be uploaded on Google Classroom.
- Click at least 3 real and natural photographs showing the 3 different phenomena of Light. Paste its print outs (preferably colored)/ photograph in your Physics practical notebook and explain the Physics phenomenon involved in each photograph.

SUBJECT - CHEMISTRY

RECOGNIZING LAB SAFETY SIGNS.



1. Safety in chemistry laboratory is of paramount importance as the conduct of experiments may involve use of hazardous chemicals. Identify the safety signs used in the lab. Prepare a quiz or a crossword puzzle based on the safety signs.
2. Identify and name some redox reactions occurring naturally. What is the relation between substances oxidised, reduced, oxidising agent and reducing agent? Explain this taking example of chemical reactions given in your NCERT textbook.
3. Learn the reactivity series of Metals.
4. Complete the critical thinking worksheet based on Chemical Reactions and Equations in your chemistry register.

SUBJECT – BIOLOGY

Survey and Research on The Global Impact of Respiratory Diseases.

Based on your research from multiple resources, you have to write a research paper (1500 words max.) on respiratory diseases and present it in the classroom.

This is to raise awareness among the people about to protect their lungs by being physically active, stop smoking, reducing air pollution and getting vaccinated.

Task- 1

‘Respiratory diseases impose an immense worldwide health burden’.

Find out the five most common respiratory diseases which are the causes of severe illness and death worldwide. Paste pictures and fill the necessary information in a table.

Format is given below:

S.No.	Respiratory disease (Name)	Scope of the disease	Prevention	Treatment	Control and Elimination
1					
2					
3					
4					
5					

Note: Source of Information for the Assignment:

It can be a Newspaper clipping, an article from a magazine or an Internet.

You have to write the reference of source of information you will use for your assignment.

Why Reference?

When you are writing an essay, report or any other form of academic writing, your own thoughts and ideas inevitably build on those of other writers, researchers or teachers. It is essential that you acknowledge your debt to the sources of data, research and ideas on which you have drawn by including references to, and full details of, these sources in your work. Referencing your work allows the reader:

1. To distinguish your own ideas and findings from those you have drawn from the work of others.
2. To follow up in more detail the ideas or facts that you have referred to.

Task- 2: Write a case study of respiratory disease of your choice

SUBJECT - HISTORY

RISE OF NATIONALISM IN EUROPE

UNIFICATION OF ITALY/ UNIFICATION OF GERMANY.

The assignment has to be prepared of 4-5 pages on the **Unification of Italy** or Unification of Germany. The assignment must include the reasons for the unification and nationalism within these nations and how the unification brought changes and revolutions in the whole of the European countries.

LEARNING OUTCOMES:

- Recognizes the role of Otto Van Bismarck in the unification of Germany.
- Observes the map of Italy and understand the various developments responsible for the unification of Italy.

The assignment must include the following:

- 1) Index
- 2) Maps
- 3) Pictures of Unification
- 4) A good web search



Unification of Italy



Unification of Germany

SUBJECT - GEOGRAPHY

Biological or biohazards can cause devastating effects on society and environment making generations of a nation vulnerable to it. Select any one such disaster and prepare a report on the following aspects of the disaster:

i) Basic characteristics and Level (epidemic or pandemic) (ii) Unicode or biohazard symbol (iii) Involvement of nodal agencies (iv) Legislations (v) Responsibility sharing (vi) Occupations /workplace where people may come into contact (vii) Prevention and control measures (viii) Detection and containment of outbreak (ix) Any other relevant information pertaining to the disaster. Students can use newspaper clippings, photographs, maps, diagrams etc. as illustrations.

OBJECTIVES:

- To develop skills to comprehend, analyze, interpret and evaluate evidences.
- To communicate data in the most appropriate form using a variety of techniques.
- To grow into caring, sensitive individuals capable of making informed, intelligent and independent choices.

The project work can culminate in the form of Charts and albums.

MAP WORK: Students are required to complete the list of maps as per the syllabus covered and compile the same in a file.

SUBJECT - ECONOMICS

- This is an individual activity- find out an existing app of the Government of India to carry on with Right to Seek Redressal as per COPRA 1986.
- Make a flow chart on the steps taken to use this app in order to seek redressal, if you are facing any obstacles/ challenges suggest changes in the app. (Use half of A3 paper for the same.)
- Each student has to present the same. (Time limit: 1 – 2 min.)



SUBJECT - MATHEMATICS

ART INTEGRATED PROJECT

Topic: Triangles

State Paired with: Arunachal Pradesh

Subjects Integrated: Maths, Social Science and Art

Project: Research on the Tribal Textile of Arunachal Pradesh and the Mathematical concepts involved in the design. The textile patterns found among the tribes of Arunachal Pradesh such as Adi, Mishmi and Apatani are invariably of geometric pattern. Most popular motives are Zig-Zag lines and angular designs. The floral and Zomorphic patterns are more or less geometric form. The simple and straight lines, stripes and Aa bands and similar other patterns are most common.



Learning Objectives:

- understand the beautiful Textile Art of Arunachal Pradesh.
- create awareness about the Tribal art forms of our country.
- improve their cognitive abilities.
- Integrate Maths with different art forms.

Project Presentation

- Students need to complete the project in groups of 5 students.
- Presentation of the Project should be through PPT.

Subject Enrichment Activity: Maths lab activities on the following topics are to be completed in Maths Lab Manual. To obtain the condition of consistency for a system of linear equations in two variables by graphical method.

- To find out the number of zeroes of a quadratic polynomial by graphical method.
- Verification of Basic Proportionality Theorem by paper cutting method.

Assignment. Maths assignments are to be completed for the following topics

- i) Real Numbers ii) Polynomials iii) Pair of Linear Equations in two variable

SUBJECT – FMM

1. Is 'Fixed Deposit' a physical asset?
2. Name the process by which physical share certificates of an investor are converted to an equivalent number of securities in an electronic form.
3. Name the segments of the Securities Market.
4. List any two categories of participants of 'Securities Market'.
5. Name the issue which is 'an offer to the public to subscribe to the share capital of the company'.
6. What is meant by a 'Depository Participant'? Who can become a 'Depository Participant'?
7. What is meant by a 'Primary Market'? Who can bring an issue in the Primary Market?

PROJECT WORK (STOCK EXCHANGE)

The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see fit.

The students are expected to:

- a. Develop a brief report on History of Stock Exchanges in India. (Your country)
- b. Prepare a list of at least 25 companies listed on a Stock Exchange.
- c. To make an imaginary portfolio totaling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.

The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front-page news of a business journal, for example,

- Change of seasons.
- Festivals.
- Spread of epidemic.
- Strikes and accidents
- Natural and human disasters.
- Political environment.
- Lack of faith in the government policies.
- Impact of changes in government policies for specific industry.
- International events.
- Contract and treaties at the international scene.
- Relations with the neighboring countries.
- Crisis in developed countries

Further details will be given by the subject teacher.

SUBJECT - ARTIFICIAL INTELLIGENCE

RESEARCH BASED ACTIVITY

Project Document must consist of:

- Cover Page with the names of the group along with members
- Index
- Basic Intro/ About the research topic
- How it Works/ What's happening around
- Research Core Area
- Data Visualizations
- Infographics
- Data Privacy Issues
- Inferences/Conclusions
- Citations/References

Project Topics:

- Recommendation models - OTT Platforms
- Recommendation models - Food Delivery Giants
- Recommendation models - Shopping Apps
- Script Bots - A chatbot for School
- Sentiment Analysis in Text/Voice
- Big Data - How apps collect data
- ChatGPT - A revolutionary bot
- Autonomous Cars – Future of Transportation
- AI shaking up the Job Market

Project Details:

- The project has to be made with collaborative effort of all team members. Each team/group can have 3-4 members.
- The team shall submit the project document hardcopy in the first week of July, 2023.
- The students can select any one or more companies or brands to have focused research.
- The team shall present their project with the help of presentations and other support materials.

Valuable links:

For data visualization and finding correlations <https://codap.concord.org/>

For making charts and infographics
<https://infograph.venngage.com/>

For Data : [Kaggle: Your Machine Learning and Data Science Community](https://www.kaggle.com/)

Schedule of Submission/Presentation of Holiday H.W.

S.No.	SUBJECT/S	DATE OF SUBMISSION
1.	Science (Physics, Chem. & Bio.), AI	5 July 2023
2.	Eng., French, Hindi, Sanskrit, FMM	6 July 2023
3	Social Science (Geo., Hist. & Eco.), Maths	7 -14 July 2023

NOTE: Weightage of holiday homework is 20 marks for each subject.

**STAY SAFE, STAY HEALTHY,
AND HAPPY LEARNING**

