



Holiday Homework

Grade – XII

ENGLISH:

Subject covered English and Geography and Life Science

Brief Description Of the Activity

Students will be divided in a group of four and each group is expected to prepare a **Project File** on the basis of their finding / research.

Each group will prepare a report and interpret the data under review. basis of their project and its findings.

Work Distribution - Students should research on Antarctica and prepare a project in the form of a project file. They may divide the work as surfing and collecting informational, writing the contents, sketching and organizing the file among themselves. Not only the leader but all the members have to speak on the project. Contribution of each and every member will be recognised and appreciated.

Assigned Topics are given below:

XIIA Climate change and its impact on Antarctica and other parts of the world

XII B_Climate change and its impact on Living species

XII C Climate change and actions required to have better Environment (SDG Goals)

XII D Threat of Climate Change and Role of World Organization towards sustainability of environment.

The students' presentations of the project will be assessed on the following parameters:

- Presentation - 4
- Accuracy. - 4
- Pronunciation. - 4
- Content. - 4
- Fluency. -4

The greatest lesson to be learned about life is to learn to be yourself.

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HINDI:

1. सतत विकास लक्ष्यों पर भारत के व भन्न राज्यों की तैयारी से सम्बंधित रिपोर्ट को दर्शाते हुए एक मॉडल तैयार कीजिये (1-10)
2. सतत विकास लक्ष्य 2030 को प्राप्त करने में भारत के समक्ष आने वाली चुनौतियों के 33 संकेतक हैं, इन सभी संकेतकों को दर्शाते हुए एक मॉडल तैयार कीजिये (11 onwards)

MATHEMATICS:

Art Integrated project

Prepare a working project/Model according to following roll numbers.

Roll Numbers	Name of Project
1-4	Relations
5-8	Functions
9-12	Use of matrix in daily life in kitchens and medical stores
13-16	Determinants
17-20	Continuity
21-24	Inverse Trigonometric Functions
25-28	Probability
29-32	Application of Derivatives
33-36	Relations and Functions

PHYSICS:

Art Integrated project

- To make **Tesla coil project**(All Tesla coils are comprised of 4 essential components: **primary coil**, **secondary coil**, **topload**, and **control circuitry**. When combined properly, these pieces allow Tesla coils to build up extreme voltages in the topload which allow for large arcs of electricity through the air.)
 - **Half wave rectifier / full wave rectifier** using diode ,led and resistor(can be used as a filter – but half wave rectifier with capacitor filter is most commonly used. The circuit diagram below shows how a capacitive filter is can be used to smoothen out a pulsating DC waveform into a constant DC waveform.)
 - **Electric car** (A plastic board for car chassis
 - Four wheels,Four tire rings,Battery,Battery holder,Electric motor,Motor mount,Transmission pulley,Rubber bands,Paper clips ,Screws ,Straw)
1. **Energy conservation based project**

CHEMISTRY:



Topic covered

1. Formation of activated carbon from onion peel .Write down their laboratory test.
2. Determination of caffeine in different tea sample
3. Effect of potassium bi sulphite as food preservative
4. Analysis of fertiliser and difference between fertiliser and manure
5. Investigation on pet resin.
6. Checking adulteration on different food product
7. Determination of content of cold drink
8. Effect of curcumin on metal ion also study about how it fight Against Alzheimer disease
9. Determination of content of tooth powder
10. Effect of sodium carbonate on foaming capacity of soap
11. Checking amount of casein present in milk
12. Effect of acid rain on limestone
13. Chocolate analysis
14. Effect of heating on vitamin C
15. Sterlization of water using bleaching powder
16. Compare the foaming capacity of different soaps
17. Determination of amount of phosphate in detergent
18. Make a list of medicine which we use for common disease and find their salt
19. Extraction of essential oil present in saunf,ajwain and elaichi

20. Preparation of soyabean milk and its comparison with natural milk with respect to curd formation and change in temperature
21. Study of oxalate ion in guava fruit at different stages of ripening.
22. Use of parali in effective way
23. Formation of eco-friendly brick
24. Use of curcumin in fighting with Alzheimer disease.
25. Coconut water analysis
26. Synthesis of poster color

The scientific objectives of the project are:

Increasing awareness about healthy food habits among the Students by studying and analyzing the harmful chemicals used in them.

And develop a scientific attitude in interactive way towards Chemistry how it plays wide role in our daily life Constant consumption of junk food raises the intake of excess fat, simple carbohydrates, and processed sugar which may lead to a higher chance of obesity and cardiovascular diseases among other chronic health difficulties. Junk foods interfere with the physiology of the body. Alongside it also hampers the hormonal balance of the body, which in turn could lead to severe health complications. Junk food can prove to be injurious to health. It leads to people gaining weight excessively, and thus they become obese soon. Apart from that, it also causes several other health problems, namely, heart diseases, cancer, liver problems, plus other chronic disorders. In any case, junk food must be avoided.

Project set up instruction

1. Make the effective use of the space provided by using clear and concise displays. It should look organized, neat and attractive.
2. Do not distract with a lot of decoration or distracting features. The prime focus is the work.
3. Do not clutter information.
4. Make sure Project should be logically presented, well organised and easy to read. A glance should enable anyone to locate the title, experiments, results, and conclusions quickly. When you arrange your display, imagine that you are seeing it for the first time.
5. Use neat, colourful headings, charts, and graphs to present your project. Pay special attention to the labelling of charts and diagrams. Each item must have a clear descriptive and distinctive title. As far as possible all items in project file may be typed or should be written in very neat and legible handwriting.
6. Languages are an important means of communication, and hence, present your project using good language. Watch your grammar, spelling and wording. Again, all sections should be TYPED and computer generated.

While completing the project file following sequence should be followed

- Certificate of Excellence
- Acknowledgement
- Index
- Aim of Project
- Introduction

- Theory
- Apparatus Required
- Procedure followed
- Observation
- Conclusion
- Precaution
- Suggestion for further investigation if any
- Bibliography

Rubrics

- Understanding the aim of project
- Application the art form
- Team work
- Investigation work
- Timeliness

BIOLOGY:

Art Integration Project-

Topic 1- Investigate on any one Viral Pandemic. You are required to cover the following details in specific manner

- i Discovery of Viruses and Viral diseases
- ii Structure of Viruses
- iii Mode of spread and mechanism of action in Humans
- iv Limitations for quick manufacturing of vaccines against Viral diseases
- v Use of Viruses as Bio weapons
- v Impact of viral diseases on cultural and creative Sector
- vi Learning from Pandemic (Policy and behavioural change)

Topic -2 Artificial Blood- is It a real substitute to blood?

Research on artificial blood and present your work which should cover

- i History
- .ii Purpose of making it and process
- . iii Applications in concerned areas,
- iv Advantages and disadvantages

Brief description of activity-

Students are required to select any one of the above mentioned projects and will prepare

- Project file/ Power point presentation/ Video keeping above points in mind.
- Data Collection through Google and other search engine and facts should be real and from authentic Source

All the students should prepare the project file on the basis of below standards:

1. Aim of the project
2. Index
3. Introduction
4. Background/History
5. Developments
6. Conclusions
7. Bibliography

Note 2 - PPT files/Slide show

The slides consist of flow charts, diagrams, images and other presentational tools. There should be no extensive use of sentences in a slide. Students must try to present the data in very summarize way.

COMMERCE :

INTEGRATED HOLIDAY HOMEWORK

"Every successful man has a successful story and that story is not created overnight ".In fact, every successfully accomplished story begins with the identification of a creative business opportunity.

Any business idea is backed by determination and FET feasibility. Yes it is FET feasibility only so don't get confused with FAT!!

In FET, one needs to conduct feasibility report which necessarily includes finding out if the idea is viable or not on the grounds of Financial, Economic and Technical(FET) basis.

We want our budding entrepreneurs to dream big and think out of the box to come up with the creative business ideas.

While thinking about the new business opportunity students are expected to consider the following points.

✓Business Studies

- The idea should be original and creative.
- Do the SWOT analysis of your product and describe how it is different from the competitors product.
- Children must come up with the demonstration of their product IN ORIGINAL (Dummy Product) along with a proper presentation of its usage and importance.

✓Marketing

- Plan the Marketing strategy layout by specifying the 4P's (Product, Price, Place and Promotion) of Marketing Mix.

✓Accountancy

- Prepare a detailed report (in written) on cost accounting and estimate the total cost of your potential product.
- Prepare a detailed report on various profitability ratios.
- The report prepared must include the estimate production cost of your product, the area where the product is planned to be launched, the funds available and the funds required to be raised from the market.

✓Economics

- Explain clearly how your product will bring change in the society and highlight the social contribution.
- Highlight how in the long run your product will contribute in the Economic development of the country.

✓ Children are advised to watch the previously telecasted episodes of SHARK TANK.

✓ The preparation of the project is MANDATORY.

✓ THE COMPLETE REPORT IS TO BE SUBMITTED IN WRITING ON A4 SHEETS.

ECONOMICS:

Do numerical in fair note book from National Income.

1. Make a PPT showing of different formulae on National income. (Roll No. 1-5)
2. Make a PPT showing climate change (Roll No. 6-10)
3. Make a PPT showing Budget-2023 (Roll No. 11-16)
4. Make a PPT showing Industrial Policy (Roll No.17-22)
5. Make a PPT showing IPR – 1956 (Roll No.23-28)
6. Make a PPT on Globalisation Boon and Curse (Roll No.29 onwards)

POLITICAL SCIENCE:

INSTRUCTIONS:

1. The complete homework has to be done on the A-4 size sheet.
2. Make a cover page and mention your name, class, section.
3. Make your homework attractive using blue, black gel pens, glitter pens and rayons.
4. Various sources of information like internet, newspaper, magazines and books can be used as reference.

Q.1. Collect information about the 18th Lok Sabha Election (2024) including the following:- Political Parties with their symbols/No of seats won by political parties in Lok Sabha/Manifesto of different political parties/ main leaders of the political parties/ criminal records of the leaders etc.

Q.2. I) Prepare a Chart on - Complete information about Uttar Pradesh Lok Sabha Parliamentary Constituencies results. (Roll No- 1-6, 13-18)

II) Prepare a Pie Chart shows the result of Lok Sabha Election 2024. (Roll no- 7-12, 19-24)

HISTORY:

Prepare the given history project as per the CBSE guidelines

Topics are:

1. Indus Valley civilisation Anshika, Yash Chaudhary (Model)
2. : Bhakti Sufi movement. Tripti, Lucky (Model)
3. Life of the women. Nikita I, SubhC model)
4. Mahabharat. Shristi, Nikita z PPT
5. The Philosophy of Guru Nanak. Simran, Sarita PPT
6. History of Jainism. Mahi, Sudha Yadav
7. The vision of Kabir. Palak, Sanchita (Model)
8. Revolt of 1857. Sumit, Aleem PPT
9. Global legacy of Gandhian ideas. Dev, Deepanshu
10. Indian Constitution. Harshit, RamanC Model)

Instructions for Completion of project

1. The project is to be done on interleaved sheets
2. The total length of the project will be 20-25 Pages
3. Color illustrations, maps, Charts may be hand drawn or printed

Additional Tips

Preface

1 Name of Project

2. Objective of project

Index

S. NO.	Particulars
1.	Acknowledgement
2.	Preface
3.	Introduction
4.	Planning and Activities done during the project
5.	Observation and Findings
6.	Conclusions

INFORMATICS PRACTICES:

Develop a Python-based application that showcases your understanding and proficiency in Python programming concepts, as well as your ability to design, implement, and document a software project.

Project Requirements:

Project Proposal: Submit a detailed proposal outlining your project idea, its objectives, features, and target audience. Include a brief description of the problem your application aims to solve or the service it provides.

Technical Specifications: Provide a detailed technical specification document describing the architecture, components, data flow, and functionality of your application. Specify the technologies, libraries, and frameworks you plan to use. **Implementation:** Develop the Python application based on your proposal and technical specifications. The application should incorporate advanced Python programming concepts such as classes and Objects.

Features: Implement a set of features that demonstrate the capabilities of your application. Examples of features include user authentication, data input forms, data processing and analysis, database integration, API integration, GUI interface (if applicable), and any additional functionality relevant to your project

PHYSICAL EDUCATION:

The objective of this holiday homework assignment is to deepen your understanding of model-based approaches in physical education and their practical applications. By engaging with this assignment, you will explore various models and their relevance to promoting physical activity, fitness, and well-being.

Instructions :

Select a Model: Choose one of the following models commonly used in physical education and sports Games

Research and Understand: Conduct comprehensive research on the model of Any One Games(Football, Basketball, Badminton, Volleyball and Hockey) as per the discussion and division in the class. Familiarize yourself with its key principles, components, and its applicability in the realm of physical education and sports sciences.

Real-life Application: Identify a real-life example or case study where your chosen model has been effectively applied to enhance physical activity, fitness, or health outcomes. This could be a documented intervention, program, or initiative at the individual, community, or organizational level.

Presentation:

Prepare a presentation summarizing your research findings and insights.

Your presentation should include an overview of the chosen model, the real-life scenario you investigated, your analysis, reflections, and recommendations for future application or research.

Demonstration:

Demonstration of understanding and explanation of the chosen model.

Depth of analysis of the real-life scenario and its alignment with the chosen model.

Critical reflection on the effectiveness and limitations of the model's application.

Clarity, organization, and presentation of the assignment.

COMM. ART:

Academic Task- Prepare 3 sheets for CBSE Board Practical Portfolio.(Choice based from syllabus except cover page and Index).

Unit-1The Rajasthani and pahari schools of Miniature painting(16th century A.D to 19th Century A.D.

Using Your creativity skills make any best out of waste DIY object / image / art form.

YOGA:

Prepare the Cutouts On A3 Shize Sheet with bold out line and pasate it on thermocol sheet according to the distribution as per the discussion in the class.

- i. Surya Namaskar
- ii. Shatkarma

- iii. Tadasana
- iv. Katichakrasana
- v. Dandasana
- vi. Parvatasan

MARKETING:

1. Revise the syllabus covered in the class so far.
2. Develop a package of any FMCG to understand the importance and levels of packaging
3. Make a power point presentation on any of the following topics(For Annual practical)

Suggested list

- ✓ Create a detailed practical file highlighting the movement of few (8-10) products through different stages of product life cycle.
- ✓ Create a project report on pricing policy adoption by different manufacturing and service firms.
- ✓ Create a project by visiting different marketing organisations in your locality (retailers, wholesalers, distributor etc.). Take 5 products of your choice and find out which type of channel was involved before it reaches your hand. Also discuss functions of various intermediaries.
- ✓ Create a project on promotion mix practices followed by Indian firms.

Communication Skills

1. Practice Speaking and Listening English (Read English newspaper daily, read a novel, have conversations in English)
2. Learn respectful vocabulary (at least 10 new words daily)

Self Management Skills

1. Maintain a positive attitude and feed the mind with positivity, read motivating books, watch inspiring movies, etc.
2. Follow a healthy lifestyle and organise your academic life.

AI:

Que Write an article on any one of the following topics in A3 size sheet:

- i) Will Artificial Intelligence surpass human intelligence?
- ii) What happens when computers get smarter than we are?
- iii) Should AI have unrestricted access to human data collected from apps and websites?

NOTE: A group discussion will also be conducted in the classroom

IT:

Task: Undertake a large-scale software development project using industry-standard technologies and methodologies. You can work on developing a Java Net Beans application, software product, or system that addresses a specific problem or serves a particular need. Follow the entire software development lifecycle, including requirements analysis, design, implementation, testing, and deployment