HOLIDAY HOMEWORK

CLASS: X SESSION: - 2024-25

SUBJECT: SCIENCE

Chemistry:

1. Revise the syllabus done till date.
2. Complete your practical file.
3. Make a portfolio (7 to 10 pages)on anyone of the chemical reaction.{ **Only for Roll No – 01-13}**
    i. Combination reaction
    ii. Decomposition reaction
    iii. Displacement reaction good
    iv. Double displacement reaction
    v. Redox reaction

 How to make it

- Definition of chemical reaction
- Types of chemical reaction
- Write in detail in any one of the reaction with definition, example, and paste pictures or draw diagrams.

Physics:

1. **Complete your practical file.**

2. **Make a portfolio on Energy management in Lakshadweep and Andaman & Nicobar.** { **Only for Roll No – 14-26}**

The following are the key points to make the portfolio.

Introduction:

- Capture attention with a title like "Island Energy: Powering Paradise Sustainably"
- Briefly explain the unique challenges of these island territories: isolation, dependence on diesel, and fragile ecosystems.

Energy Consumption:

- Research current energy sources (mainly diesel) and their limitations (cost, pollution).
- Include a graph or chart showing the rise in energy demand (source: Lakshadweep Electricity Department website).

Shifting to Renewables:

- Highlight government initiatives for renewable energy (MNRE's 40 MW solar program).
- Explain the advantages of solar power in these islands (abundant sunshine).
- Briefly mention other potential renewable sources like wind or biofuel (if applicable).

Case Studies:

- Choose one island from each UT (e.g., Kavaratti in Lakshadweep, Port Blair in Andaman & Nicobar).
- Research their specific renewable energy projects (solar power plants).
- Include pictures or maps if possible (source: government websites or news articles).

Benefits of Renewables:

- Discuss the environmental benefits of reduced diesel dependence (cleaner air, protection of marine life).
- Briefly touch upon economic benefits (lower fuel costs, job creation in renewable sector).

Challenges and Solutions:

- Acknowledge challenges of integrating renewables (battery storage, grid management).
- Briefly mention government plans or ongoing research to address these challenges.

The Future of Island Energy:

- Discuss long-term goals for achieving 100% renewable energy in these islands (source: news articles or government plans).
- Mention any innovative ideas or technologies being explored.

Conclusion:

- Summarize the importance of sustainable energy management for these islands.
- Briefly mention the positive impact on tourism, environment, and local communities.

Bonus:

- Include a timeline showcasing key milestones in the islands' shift to renewables.
- Create a short quiz to test classmates' knowledge about the topic.

Biology:

1. Revise the Biology syllabus completed in school.
2. Complete your practical file.
3. Prepare a portfolio consisting of 15-20 pages based on chapter-16 "Management of Natural Resources". Some of the topics are as follows: **{only for roll no. 27-45}**
   (i) Management of waste - Biodegradable & Non-biodegradable
   (ii) Sustainable Management of forests
   (iii) Management of water
   (iv) Sustainable management of coal & petroleum
   *As per CBSE Curriculum, the portfolio carries 5 marks.
   *Do not copy the contents of NCERT.
   * Use loose sheets - coloured or white.

SUBJECT: SST

1. PROJECT WORK

Every student has to compulsorily undertake *one project on:*

1. Consumer Awareness (Roll No:1-14)

2. Social Issues (Roll No:15-28)

3. Sustainable Development (Roll No:29-43)

The project file should consist of the following:

1. **Cover page (design it yourself)**

2. **Acknowledgement**

3. **Index**

4. **Introduction**

5. **Content**

6. **Pictures/ Collage/ paper cuttings**

7. **Conclusion-A summary report should be prepared highlighting.**

1. CONSUMER AWARENESS (Project File)

- Read chapter 5 of Economics - CONSUMER RIGHTS

- Prepare a handwritten Report on the mentioned topic.

Consumer rights Awareness.

It should cover following points.
a) Introduction: Consumer Awareness
b) Need for Consumer awareness
c) Consumer Exploitation and its ways.
d) Consumer Rights
e) Duties of Consumers
f) Consumer Awareness Movement
g) Consumer protection Act
h) Consumer courts
i) Jago grahak Jago

  j) World Consumer Right Day

2. SOCIAL ISSUES (Project File)

- Identify the various social issues faced by India in the 21st century and find out how it impacts the socio-cultural aspects and economicdevelopment of the country.
- Examples-Corruption, Gender inequality, Casteism, Communalism.

3. SUSTAINABLE DEVELOPMENT (Project File)

1. Deforestation
2. Desertification and Drought
3. Floods and Soil Erosion
4. The rise in sea level

2   **Revise the lessons which are taught in the class.**

SUBJECT: ENGLISH

1. Write one letter on each of the following categories:
   - Placing Order
   - Inquiry Letter
   - Letter to the Editor

2. Write any 10 Poetic Devices like Simile, Personification Metaphor, Oxymoron etc. on A4 size sheet with examples of each from the poem in first flight and decorate the sheets using your creativity, Use a separate sheet for each poetic device.

3. Design a newspaper. Include Andaman & Nicobar Islands details in it.You can include the following points:
   - Its Weather
   - Best time to visit
   - About the beaches
   - Sports activities

Be realistic with font and format of the newspaper.

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SUBJECT: ART &CRAFT

Mention your Details on Back
Section A, B & C
1. Make any one beautiful and best Quality painting from the following topics:
   - Floral
   - Buddhism
   - Worship
   - Still life/Realism
2. Write 3 Quotation (Motivational or Educational) on A3 Size Sheets with Neat & Clean Borders.
3. Complete your done tasks in the file.

Section D, E, & F
1. Make good quality and presentable borders (drafting, cutting & pasting, designing, painting).
2. Prepare full size ivory sheet and perform any one Art form on it.
   - Medium: You can use any no restrictions
   - Note: Must be presentable.
3. Complete your tasks in your file.
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SUBJECT: COMPUTER SCIENCE

1. Prepare presentation on the following topics(Refer Book Chapter : 1,2 & 7)

S.NO	TOPIC	ROLL NO.
1	Internet Basics	1-15
2	Internet Services	16-30
3	Cyber Ethics	31 ONWARD

General Instruction:

1) Make 10-12 slides on each topic.
2) Bring the printouts in proper file cover.

SUBJECT: Hindi

हिन्दी

1. कबीर ने स्पष्ट किया है कि बाह्य आडंबर से ईश्वर की प्राप्ति नहीं हो सकती और हरिहर काका में भी महंत जी का रूप धर्म की दृष्टि से उचित नहीं है फिर ईश्वर की प्राप्ति का मार्ग क्या हो सकता है ? इस विषय में अपने विचार प्रस्तुत कीजिए।

2. चुनावी रंग में रंगी दिल्ली इस विषय पर लगभग 80 से 100 शब्दों में अनुच्छेद तैयार कीजिए।

3. स्वरचित कहानी की सचित्र प्रस्तुति।

4. अतिरिक्त कक्षा में करवाए गए कार्य को याद कीजिए।

आवश्यक निर्देश-

-उपर्युक्त कार्य अलग परियोजना फ़ाइल में करना है।

"इस परियोजना कार्य के लिए आंतरिक मूल्यांकन के अंतर्गत 5 अंक निर्धारित हैं।

*परियोजना निर्माण की रूपरेखा - विद्यार्थी का नाम, कक्षा, वर्ग, अनुक्रमांक, विद्यालय का नाम एवं विद्यालय का प्रतीक चिहन (लोगो), आभार ज्ञापन, भूमिका/प्रस्तावना, संपूर्ण चित्राकर्षक परियोजना, संदर्भ- ग्रंथ।

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 Zemorphic 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.

a. To find out the number of zeroes of a quadratic polynomial by graphical method.
b. 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