



MAHARAJA AGRASEN MODEL SCHOOL
CD BLOCK, PITAMPURA, DELHI

Class - XII (Session 2024-25)
Homework for Summer Vacation

Regarding the submission of Internal Grades for Class XI and XII

- To foster competencies in learners, the curriculum encompasses seven major learning areas, which are: Languages, Humanities, Mathematics, Sciences, Skill Subjects, General Studies and Health and Physical Education. These areas are broadly divided into electives and compulsory areas.

(i) Health and Physical Education focuses on holistic development, both mental and physical, understanding the importance of physical fitness, health, well-being and the factors that contribute to them. Learners value and engage in practices that promote physical, cognitive, emotional and social development and well-being. This enables learners to connect different areas of knowledge, application and values with their own lives and the world around them.

(ii) General Studies: The purpose of orienting students to General Studies is to develop in them an appreciation for the holistic nature of knowledge.

- As per the guidelines issued by CBSE, it is mandatory for all the schools to submit internal grades to class XI and XII students in these areas.

- For assessment in these areas, students are supposed to submit a project on any one of the following topics.:

1. The number of women in the police force seems insufficient, thereby, highlighting the need of having more women in the police force.
2. In many parts of our country girls are still discouraged from going to school.

Consequently, a sizeable section of the population is deprived of education schemes like Sarva Shiksha Abhiyan, CBSE scholarship to the girl child.

3. Advertisements have become a big business. They are promoted by celebrities drawn from various fields like films, sports, etc., leaving their influence on all people especially the young.

4. Present-day youth is greatly stressed due to cut-throat competition and consumerist culture which requires a suitable solution.

5. Save blue to save green

6. Impact of Meditation and Yoga

- Submission of project can be in the form of PowerPoint or using Adobe Spark or any other online mode.

ENGLISH

A. Art Integrated Project - A brochure on Andaman and Nicobar islands- "Emerald, Blue and You". Feature a calm, serene and relaxed holiday on these Indian Coral Islands.

Guidelines

The brochure should be prepared on an A4 sheet and the presentation should be eye-catching.

Steps to be considered while working on the project:

Browse the information about the topic on the internet.

Add some relevant pictures. You can draw or paste the same. Give a suitable title to the brochure.

Prepare it for presenting in the class.

B . Read the following chapters and make a PPT on any one.

Poets and Pancakes

Interview

Prepare the following topics for the test

Lost Spring

Deep Water

Invitations- Formal, Informal and their replies

PHYSICS

1. Art Integrated Project- Prepare a PowerPoint presentation highlighting the natural beauty of Andaman and Nicobar Islands. Its Flora and fauna, Inhabitants and natural phenomena occurring. The presentation should contain 10-12 slides.
2. Complete practical file.
3. Complete assignments on the chapter covered.

CHEMISTRY

Part A

Art Integration Learning Project

THEME: Demonstrate various concepts of Chemistry using different art tools of Lakshadweep, Andaman and Nicobar Islands

Make a PPT for the project:

- Guidelines:

1. The presentation should be of 10-15 slides

i) Slide one – Name of the School, subject, name of the student, class and section.

ii)Slide two- Index (by using Table) iii)Slide three- Introduction of your topic

iv)Slide 4 to 10 or 15 - Content

Kindly email the PPT to the respective subject teacher's email ID

priyanka.garg@agrasenschool.com

mini.aggarwal@agrasenschool.com

Part B

1. Design an Investigatory project (Handwritten) on the topic assigned under the following headings:

#First page- topic

Index

Certificate

#Acknowledgment

#Introduction

#Content

#Theory

#Observation

#Conclusion

#Bibliography

2. Complete chemistry Practical File

3. Complete Assignment registers for the following chapters: Solutions, Electrochemistry, Chemical Kinetics, and d and f block elements.

4. Compile all the formulae of Units 1, 2 and 3 and graphs on A4 size sheets with proper headings and make it impactful.

BIOLOGY

Part A

Biology Art Integrated Project Theme-Andaman and Nicobar Islands: A BIODIVERSITY HOTSPOT

GENERAL INSTRUCTIONS:

- 1) Make groups of 2-3 for Art Integrated Learning.
- 2) Based on the given theme, prepare an E-brochure highlighting the various species diversity of Andaman and Nicobar Islands as well as the steps taken to conserve their rich diversity. Please e-mail the e-brochure to neha.sanan@agrasenschool.com

Part B

1. Completion of the assignments and NCERT Questions-Answers of following chapters: Chapter 1- Sexual Reproduction in Flowering plants, Chapter 2- Human Reproduction Chapter 3- Reproductive Health Chapter 5- Principles of Inheritance and Chapter 6- Molecular Basis of Inheritance
2. Design an Investigatory project on any one topic related to Biology under the following headings:

- First page- topic,
- submitted to/submitted by Certificate
- Acknowledgement
- Contents
 - Introduction
 - Theory
 - Observation
 - Conclusion
 - Bibliography

1. Prepare a presentation (using Adobe Spark, Microsoft Office etc.) for any one of the following topics: a) Haemophilia b) Pedigree charts and their significance c) Sex-linked traits and their inheritance (Maximum 5-7 slides). Kindly email the ppt to the respective subject teacher's mail ID(neha.sanan@agrasenschool.com)
2. Completion of Biology Practical file for part A and part B experiments.

MATHEMATICS

A) Complete MCQ and Subjective assignments of the following chapters:

1. Matrices
2. Determinants
3. Relations and functions.
4. Inverse Trigonometric Functions.

B) Complete the Maths Practical file. (Activity 1 to 10)

C) Art Integrated Project (Andaman Nicobar Island)

A matrix is a rectangular arrangement of items. Form a 3×3 matrix of any famous items (monuments, places, jewellery, dresses, spices, fish bone articles, jute items, coconut handicraft, timber craft etc) of Andaman and Nicobar Islands. For each element a_{11}, a_{12}, \dots in this array write any two interesting facts or useful information to explore more about these islands.

COMPUTER SCIENCE

a) Completion of Investigatory Project

Develop a Text / CSV-based project demonstrating the Delhi - Lakshadweep pairing. Perform analysis report/application based on the given topic. Some of the exemplar topics are given below, you may develop your own idea too.

1. Flight Data Analysis: Analyze flight data between Delhi and Lakshadweep, including flight schedules, ticket prices, passenger demographics, and travel trends. Use CSV files containing flight details and passenger information.

2. Weather Comparison: Compare weather data between Delhi and Lakshadweep over a period, analyzing temperature, humidity, rainfall, etc., using CSV files containing historical weather data.
3. Tourist Analysis: Analyze tourist data for Delhi and Lakshadweep, including visitor demographics, popular attractions, accommodation preferences, etc. Utilize CSV files with tourist information.
4. Healthcare Disparities: Investigate healthcare access and disparities between Delhi and Lakshadweep by analyzing healthcare facilities, patient demographics, prevalent diseases, etc. Use CSV files containing healthcare-related data.

b) Complete Practical File Questions for the curriculum covered.

c) Revise for Comprehensive Exam

d) Completion of Assignments

Suggested links :

<https://www.geeksforgeeks.org/computer-science-projects/>

ECONOMICS

a) Completion of Art integrated project

As part of guidelines by the CBSE, all students are required to prepare art-integrated projects under the "Ek Bharat Shreshth Bharat programme". For CBSE Art Integrated Learning and Project Work, in Academic Session 2024-25, Delhi has been paired with Lakshadweep, Andaman & Nicobar Islands. Students have to work in groups of 4 to 5.

Make a ppt (8-10 slides)/ a small video of about 2 minutes on the topic assigned to your group.

Group 1- Organic farming in Lakshadweep, Andaman & Nicobar Islands

Group 2- State of poverty in Lakshadweep, Andaman & Nicobar Islands

Group 3- State of Agriculture and Allied activities in Lakshadweep, Andaman & Nicobar Islands

Group 4- State of the industrial sector in Lakshadweep, Andaman & Nicobar Islands

Group 5- Workers participation rate in Lakshadweep, Andaman & Nicobar Islands

Group 6- State of education and health sectors in Lakshadweep, Andaman & Nicobar Islands

Group 7- HDI of Lakshadweep, Andaman & Nicobar Islands

Group 8- Sectoral composition in Lakshadweep, Andaman & Nicobar Islands

Group 9- State of infrastructure in Lakshadweep, Andaman & Nicobar Islands

b)

1. Completion of project file.
2. Completion of assignments of following chapters
 - Indian Economy on the eve of Independence
 - Money and Banking
 - National Income

ACCOUNTANCY

Part A

Complete the following Art integrated project - Analysis of Financial Statement for the year 2023-24 company operating in Lakshadweep, Andaman & Nicobar Islands. You can present using pie chart or bar diagram.

Part B

1. Complete the project file
2. Complete the following assignment-
Retirement of a partner

BUSINESS STUDIES

PART A

Art Integration Work

Do any 1 of the following-

Choose a generic product of Andaman and Nicobar Islands or Lakshwadeep.

Prepare a poster covering its Product Mix.

Choose a generic product of Andaman and Nicobar Islands or Lakshwadeep.

Prepare a poster covering its Promotion Mix.

-Prepare a collage depicting the agenda and activity areas covered under G20.

PART B

- Preparation of Project file according to CBSE guidelines.

- Revise the chapters for the Comprehensive Exam.

- Complete the assignments of the chapters:

Business Environment

Marketing

POLITICAL SCIENCE

A- Design a poster on the type of government in Lakshadweep or Andaman Nicobar Island.

B- make project file according to CBSE guidelines.

Complete the assignments given in class.

PSYCHOLOGY

Part A (Psychology Art Integrated Project)

Theme- Psyche of the Islands: Exploring Psychological Landscapes of Andaman and Nicobar

Based on the given theme, prepare an e-brochure/ pamphlet. Investigate the impact of the unique environment, isolation, and cultural diversity on the psyche of the inhabitants. Please email the e-brochure/ pamphlet to sahiba.malhotra@agrasenschool.com

Part B

1. Complete assignments and NCERT question answers of the following chapters: Chapter 1- Variations in Psychological Attributes, Chapter 2- Self and Personality.
2. Complete your Practical File and Case Profile as per CBSE guidelines shared and discussed in class.

INFORMATICS PRACTICES

Part A: Art Integrated Learning Project

b) Completion of Investigatory Project

Develop a Text / CSV-based project demonstrating the Delhi - Lakshadweep pairing. Perform analysis report/application based on the given topic. Some of the exemplar topics are given below, you may develop your own idea too.

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Part B: Complete the Series assignment uploaded on Schooleye (Also, shared on WhatsApp)

PHYSICAL EDUCATION

Project work to be submitted