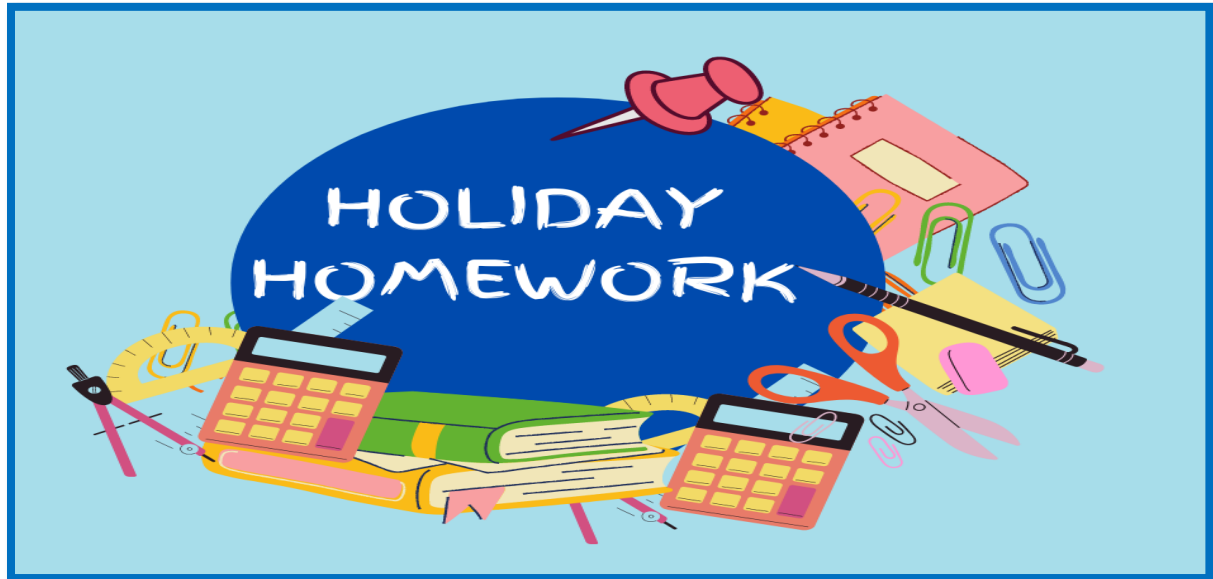# ROYAL OAK INTERNATIONAL SCHOOL
SR. SEC. CBSE AFFILIATED (SESSION 2024-25)
HOLIDAY HOME WORK
Class – XII

Please note the following:

➢ Summer Vacations will commence from 24th May, 2024(Monday) till 28th June, 2024 (Friday), both days inclusive.

➢ The school will re-open on 1st July, 2024(Monday)

➢ Schedule for the submission of HHW is as follows :

English/P.Ed	:	02/07/2024 (Tuesday)
Hindi/Chem./Accounts	:	03/07/2024 (Wednesday)
Maths/Sociology/Bio.	:	04/07/2024 (Thursday)
P.Sci./B.Std	:	05/07/2024 (Friday)
His/Eco./CS	:	08/07/2024 (Monday)
Phy./IP/F&N	:	09/07/2024 (Tuesday)

❖ Summer HHW -5marks will be added as an Activity marks in Term - I

Wishing you all a very fruitful and enjoyable vacations.

To be ready for tomorrow's opportunities, do your homework today. Learn, refine your skills and focus on your growth.

D/P

Greetings !

Summer has arrived and brought with it your amazing and fun-filled holidays. Summer break is a well-deserved opportunity to relax and unwind by indulging in various activities. Your Holiday Homework has been specially designed for you to be creative, innovative and imaginative while completing your tasks. It will also enable you to recapitulate what was taught in the classrooms.

We hope you will play, learn, research, analyze, experiment, imagine, think, value, appreciate and above all enjoy during your holidays. Wishing you happy holidays!

Instructions for the students:

1. Do all your homework as per the instructions.
2. Parents are requested to only guide their children while doing the homework.
3. Originality of the work will be appreciated.
4. Use your creativity and imagination wherever required.

NOTE: Please make sure that your ward will revise all the work done in the month of April and May for all the subjects.

Happy Vacations!

Regards

TEAM ROIS

ENGLISH:

1. "Write a report in 120 to 150 words analyzing the Lok Sabha elections 2024 in Agartala the capital of Tripura, focusing on voter turnout, key candidates and parties, major issues, and the outcome of the election. Include insights into the political landscape and its impact on the state."

2. "Write an invitation inviting friends and family to experience the cultural richness of Agartala the capital of Tripura during a festive event. Include details such as date, time, venue, and highlights of the event."

HINDI:

1. निम्नलिखित में से किसी एक कवि का जीवन परिचय तथा उनकी कोई दो काव्य रचनाएं ए-4 शीट पर सुंदर हस्तलिपि में लिखकर चित्र सहित एक फाइल तैयार कीजिए ।

सुमित्रानंदन पंत ,मैथिलीशरण गुप्त , महादेवी वर्मा ,

2. निम्नलिखित में से किसी एक लेखक का जीवन परिचय तथा उनकी कोई दो रचनाएं (नाटक अथवा कहानी)सारांश ए-4 शीट पर सुंदर हस्तलिपि में लिखकर चित्र सहित एक फाइल तैयार कीजिए ।

नाटककार -कालिदास -अभिज्ञान शकुंतलम , कुमारसंभव

कहानीकार ,सुदर्शन -हार की जीत, पत्थरों का सौदागर

3. हिंदी साहित्य का आदिकाल-नामकरण और सीमा, आदिकाल परिवेश, आदिकाल साहित्य वर्गीकरण,(सिद्ध साहित्य, जैन साहित्य, नाम साहित्य, रासो साहित्य) आदिकाल कविता की प्रवृत्तियां, गद्य साहित्य, आदिकाल प्रतिनिधि रचनाकार पर (एक कार्य परियोजना तैयार कीजिए।)

4. 'त्रिपुरा' पर चित्र सहित एक रिपोर्ट तैयार कीजिए।

MATH:

I . Design An Art integrated project based on the applications of Derivative in different states of TRIPURA as in the concept of map .

II. To do the following activities using creative ideas:

Activity 1. To verify that the relation R in the set L of all lines in a plane ,defined by R={(l,m):l is perpendicular to m} is symmetric but neither reflexive nor transitive.

Activity 2.To demonstrate a function which is not one-one but is onto.

Activity 3. To find analytically the limit of a function f(x) at x=c and also to check the continuity of the function at that point

Activity 4 .To draw the graph of sin -1 x, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x)

Activity 5.To establish a relationship between common log arithem(base 10) natural logarithm(base e) of the number x

III. chapters 1,2 , 5, 6 at least two times from M.L Aggarwal in separate note book.

NOTE : - Do maths holiday homework in separate register.

PHYSICS:

- ➢ Investigatory projects as discussed in classroom.
- ➢ NCERT Exemplar questions
  - Ch 1 Electric charges and field.
  - Ch 2 Electric potential

CHEMISTRY:

- ➢ Investigatory projects
  - Synopsis of investigatory project is to be prepared.
    Note: In synopsis aim, material required and detailed procedure is to be written.
  - Students need to prepare synopsis using A-4 size white sheets without lines and all the sheets are to be attached in a file. [You can take help of internet while selecting the project for synopsis]
- ➢ Solve NCERT Exemplar questions of Solutions, Haloalkanes and Haloarenes,Alcohols, phenols and ethers.

BIOLOGY:

- ➢ Investigatory Projects
- ➢ Do the research work.
- ➢ Prepare the synopsis of Investigatory projects.
  (Use A4 size lining sheets for this purpose).
- ➢ Solve the exemplar questions of the following.
  Unit-1 Reproduction
  Unit-2 Genetics (Ch. Principles of inheritance & Variation)

COMPUTER SCIENCE:

1. Write a Python program to sum all the items in a list.
2. Write a Python program to get the largest number from a list.
3. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.
   Sample List : ['abc', 'xyz', 'aba', '1221']
4. Write a Python program to remove duplicates from a list.
5. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).

6. Write a Python program to count the number of characters (character frequency) in a string.
   Sample String : google.com'
   Expected Result : {'o': 3, 'g': 2, '.': 1, 'e': 1, 'l': 1, 'm': 1, 'c': 1}
7. Write a Python program to get a string from a given string where all occurrences of its first char have been changed to '$', except the first char itself.
   Sample String : 'restart'
   Expected Result : 'resta$t'

8. Write a method in python to display the elements of a list twice if it is a number and display the element terminated with'*' if it is not a number.
9. Write a user defined function find name(name) where name is an argument in python to delete phone number from a dictionary phonebook on the basis of the name ,where name is the key.
10. Write a program to input employee number and name for N employees and display all employees' information in ascending order of their employee number.
11. Write an interactive menu driven program with the following four functions:

    a) To create a text file called "Nation.txt"
    b) Display the file
    c) Append relevant content to the file
    d) Make a copy of the file
    e) Count the total number of "the" in the file

NOTE: Execute the given programs and make a file by taking screenshots of output. Take printouts and make a file.

INFORMATICS PRACTICES:

I. **Consider the following DataFrame TRIPURA (one of the seven sister states) containing position of the 8 Districts and their index score under SDG:5 for gender equality as under.**

TRIPURA

	Gender equality Rank	Score
North Tripura	18	86
West Tripura	20	85
Dhalai	38	79
Gomati	38	79
Khowai	38	79
South Tripura	38	79
Unokati	49	77
Sephahijala	58	74

Considering the DataFrame Tripura, Write python code for the following :
    a) Create Dataframe TRIPURA.
    b) Rename indexes of West Tripura as W.T and South Tripura as S.T.
    c) Rename column name Gender equality Rank as G.E.R and Score as Sr.
    d) List 2nd, 3rd and 4th row.
    e) Display the Triputa for Score only.
    f) Create another DataFrame that must not contain column Score.
    g) Create another DataFrame that must not contain row Dhalai.

II. **Consider the following Series TRIPURA(one of the seven sister states) containing all the Tripura Districts.**

TRIPURA

INDEX

1	Dhalai.
2	Gomati
3	Khowai.
4	North Tripura.
5	Sepahijala.
6	South Tripura.
7	Unakoti.
8	West Tripura.

Considering the Series Tripura, Write python code for the following :

   a) Create the Series Tripura.
   b) Create the Series Tripura taking index name A,B,C,D,E,F,G,H.
   c) Modify District name of 4th index as NT and 6th index as ST.
   d) Print last 5 Districts of Tripura
   e) Print only first three Districts of TRIPURA
   f) Remove 4th district from Tripura.
   g) Print the attributes of Series 'Tripura' object obj in a Report form as shown below :

Attribute name	Object obj
Data type	
Shape	
No. of bytes	
No of dimensions	
Item size	
Has NaNs ?	
Empty	

 Note* : Run the above codes in Python IDLE. Prepare a practical file having code and output(hardcopy).

FOOD AND NUTRITION:
1. Collect and compare the data for the state of tripura with gurugram on following topics
a. Non- Communicable diseases (5)
b. Covid outbreak
2. Prepare a folder briefing about the delicacies of Tripura .
3. written documentary on top 5 Food outlets you visit during vacations.

ACCOUNTS:
Do practice paper for following chapter
1. Accounting for Partnership firm-fundamental
2. Change in Profit sharing Ratio among existing partner.

BUSINESS STUDIES:
Do self assessment for the following chapter.
1. Management -Nature and Significance
2. Principle of Management
3. Business Environment.

ECONOMICS:
1. Collect and compare the data about Agriculture, industry, demographic profile and occupational structure for the state of Tripura since independence.
2. Complete all unsolved illustrations from NATIONAL INCOME.

SOCIOLOGY:
1. Prepare a poster on literacy in Tripura**.**
2. Project Work Prepare a PROJECT FILE which should be handwritten consisting of 25-30 A4 size sheets. The project file should be prepared in the following sequence-
- Cover page should include the title of the Project, student information school and year
- Certificate
- Acknowledgement
- Index
- Introduction of topic/title Statement of purpose/Need and objective of the study
- Hypothesis/Research question
- Review of literature
- Presentation of evidence
- Methodology
- Questionnaire
- Data collection
- Significance and relevance of the topic
- Challenges encountered by conduction the research
- Content analysis and its relevance in the current scenario
- Conclusion
- Limitation
- Bibliography
- Annexures and overall presentation
- Project must be made presentable with the help of images, graphs, pie-charts, diagrams etc.
- Different forms of Art must be included/may be integrated in the project work.

List of Suggested Topics:
Students can select anyone topic from the below mentioned topics-
- Need for women empowerment in India

- Climate and its effect on society
- Joint family-is it eroding in India
- Impact of social media on our society
- Social in equality and Social exclusion
- Family and Kinship
- Globalisation and Mass Media
- Impact of Westernisation on people
- Significance of family planning in controlling population
- Domestic violence
- Impact of Industrialisation on people
- Is Marriage as an institution collapsing in India
- Cultural diversity in India
- Status of education in low income group Indian society
- Gender inequality in workplace
- Role of Youth in contemplating gender

POLITICAL SCIENCE:

Draft an informative sheet about any one Tribal Political figure of Tripura using colourful pictures on an A-3 size sheet. The handwriting must be neat and use relevant features to make it more informative.

HISTORY:
- ❖ **Make a project file on the following topics in a beautifully covered files as per as CBSE guidelines.**

ROLL NO.	TOPICS
1 to 3	Depiction of life during Mughal period through paintings and architecture
4 to 7	The tribal groups of India : The Pahariyas and The Santhals
8 to 10	An imperial capital : Vijayanagar
11 to 13	Role of Mahatma Gandhi in the Nationalist Movement
14 and 15	Through the eyes of Travellers : Ibn Batuta, Al Baruni, Dusate Barbosa, and Francios Bernier
16 and 17	Artifacts of the Harappan Civilisation
18 and 19	Mahabharta through the readers eyes
20 and 21	Buddha's Path to Enlightenment
22 and 23	The process behind the framing of the Indian Constitution
24 and 25	Vision of unity behind the first war of Independence

Must begin the project by including the following parameters (more than 32 pages) :
- Front information (School name, academic year, Project title and roll no)
- Beautiful creative Cover page
- List of content with page number (index).
- Certificate
- Acknowledgement (giving credit to those who helped you in this project)
- Project overview (brief idea about the project)
- Content sheet (10 to 12 pages with relevant photographs with maps)

- Conclusion

- Bibliography (the book you read and the website you visited for the project)
❖ **Make a clay model on Harappan Civilization (any one)**
  Jewelry, Great bath, Burial pits, Domestic architecture, Drainage system.
❖ **Prepare a poster on the Ethenic cultural beliefs of Agartala (a capital city of Tripura).**

PHYSICAL EDUCATION:
Design a chart and describe six yogasan through diagrams or pictures, including their procedure, benefits and contraindications.