



BANYAN TREE SCHOOL
LODHI ROAD
Session 2023-24

Holiday Home Work **Grade XII**

Subject	Description
English	<p><u>Research Based Project (As per CBSE guidelines)</u> As per CBSE guidelines, the themes/ideas/issues highlighted in the chapters/poems/ drama given in the prescribed books 'Flamingo' and 'Vistas' may be developed in the form of a project. Some of the themes are given below:</p> <ul style="list-style-type: none">· Linguistic Chauvinism· Child Labor· Courage· Indian Freedom Movement· Environmental concerns· Gender concerns· Loyalty towards the country· Beauty of nature· Marginalized sections of the society· Others <p><u>Attempt ANY ONE of the following projects:</u></p> <p>Option 1: Interview-Based Research. Prepare a questionnaire. Ask 15-20 people to fill it. Analyze and write a report on it for 800-1000 words.</p> <p>Option 2: Listen to podcasts/ interviews/ radio shows/ documentaries and prepare a report countering or agreeing with the speakers. Prepare a report on it in 800-1000 words.</p> <p>Option 3: Write a play involving the themes given. The script should explain the research done.</p> <p>The project should include the following pages:</p> <ol style="list-style-type: none">1. Cover page, with title of project, school details/ details of students.2. Index3. Statement of purpose/ objectives4. Certificate of completion under the guidance of the teacher

	<ol style="list-style-type: none"> 5. Action plan for the completion of assigned tasks 6. Main content 7. The 800-1000 words essay/ report 8. Student reflection 9. Photographs, if required 10. Bibliography
Accountancy	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <ol style="list-style-type: none"> a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. b. Also start designing the cover page of the file based on your research topic. c. Prepare your survey questionnaire as well as the 2nd method you will use (interview, case study).
Business Studies	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <ol style="list-style-type: none"> a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. b. Also start designing the cover page of the file based on your research topic. c. Prepare your survey questionnaire as well as the 2nd method you will use (interview, case study).

Mathematics	<p>Project: Research Based Project (As per the shared CBSE guidelines) .</p> <p>Maths is a higher level one where concepts of calculus, inverse functions, linear algebra, etc., are given. Here are some ideas for students to work on Maths projects. They can also create Maths working models for the below given topics. (Any one topic)</p> <ul style="list-style-type: none"> ● Graphs of Inverse trigonometric functions. ● Application of trigonometry in real life. ● Applications of Matrices in different field. ● Application of determinants in real life ● Applications of derivatives in real life. ● Application of Probability in real life. ● Application of Conic Section in real life. ● History of Mathematics including the great Mathematicians and their contributions. <p>a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. Complete the maps, timeline, glossary etc and make your activity schedule and share the same.</p> <p>b.. Also start designing the cover page of the file based on your research topic.</p> <p>c. Complete your worksheet shared with you by mail.</p>
History	<p>1. Project: Research Based Project (As per the shared CBSE guidelines)</p> <p>a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. Complete the maps, timeline, glossary etc and make your activity schedule and share the same.</p> <p>b. Also start designing the cover page of the file based on your research topic.</p> <p>2. Complete the Worksheet (Theme 3) shared with you by mail.</p>
Political Science	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <p>a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic.</p> <p>b. Also start designing the cover page of the file based on your research topic.</p> <p>c. Prepare your survey questionnaire as well as the 2nd method you will use (interview, case study)</p>

Sociology	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <ol style="list-style-type: none"> Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. Also start designing the cover page of the file based on your research topic. Prepare your survey questionnaire as well as the 2nd method you will use (interview, case study)
Physics	<p>I. Project: Investigatory Research Based Project (As per the shared CBSE guidelines) <u>General Instructions/Guidelines for Investigatory Project</u></p> <p>A project could have the following outline:</p> <ol style="list-style-type: none"> Select a Topic - Choose or identify a problem that has given rise to the Project. Objective - Specific objective of topic with a Unique Title. Establish a purpose of the project - Describe what you plan to do and explain how the results of the experiment will help the society. Research your topic <ul style="list-style-type: none"> Collect information from various resources. Make notes with reference sources. Make a hypothesis - Explain what you think will happen and why. Materials/apparatus used Conduct the Experiment <ul style="list-style-type: none"> Mention the procedure/methodology used. Plan, organize and conduct. Under controlled conditions, perform the experiment. Maintain a research log book where observations and other details are recorded minutely. Recording and analyzing of data <ul style="list-style-type: none"> Data should be interpreted in terms of proposed hypotheses. Data should be tabulated and interpreted with the help of graphs if possible. The interpretation should be done in an honest manner even if it does not support the proposed hypothesis. Conclusion/Inference Precautions taken while performing the project. Sources of Error (if any) Presentation of Project Report- In a systematic manner, clear and bold lettering, pictures, graphs etc. to be used to highlight the display of the project. Make a suitable Cover page, add a page for Acknowledgement, Certificate and Bibliography. <p>II. Complete the worksheet (Chap 2 and 3) shared with you by mail.</p>

Chemistry	<p>Project: Investigatory Research Based Project (As per the shared CBSE guidelines)</p> <p><u>General Instructions for Investigatory Research Project</u></p> <p>A project could have the following outline:</p> <ol style="list-style-type: none"> 1. Statement of Problem- A clear statement of the problem/need that has given rise to the project 2. Objectives-General and specific objectives of topic 3. Introduction-The introduction should describe the relevance of the problem or why the problem is the most appropriate for your inquiry. It should also describe previously known facts about your problem question with proper bibliography. Introduction towards the end briefly includes your hypothesis and the method to test it. 4. Problem question (specific, concrete questions to which concrete answers can be given) and/ or hypotheses 5. Methods/Procedures Methodology (will your research be based on survey, an experimental investigation, historical study, ethnographic study or content analysis).Methods describe the experiments proposed or the observations planned to make and the detailed process of analysis of data/observations. Methods proposed should be feasible and be able to adequately answer problem questions. 6. Materials/Resources required 7. Observations/Data gathered Using the procedures mentioned in the introduction, experiments should be conducted and data should be recorded. 8. Analysis of data and discussion of result Data should be interpreted in terms of proposed hypotheses. Data should be tabulated and interpreted with the help of graphs if possible. The interpretation should be done in an honest manner even if it does not support the proposed hypothesis. 9. Conclusion Reporting and writing up the report Discussion of new learning from the study may be covered under conclusion. This may have possible suggestions for future studies.
Psychology	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <ol style="list-style-type: none"> A. Development of case profile: Using appropriate methods like interview, observation & psychological tests. B. Test administration: Students are required to administer and interpret five psychological tests related to various psychological

	<p>attributes like intelligence, aptitude, attitude, personality, etc.</p> <p>C. In the Practical examination, the student will be required to administer and interpret two psychological tests.</p>
Computer Science	<p>Write the following python programming and display the output.</p> <ul style="list-style-type: none"> ● Read a text file line by line and display each word separated by a #. ● Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file. ● Remove all the lines that contain the character 'a' in a file and write it to another file. ● Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message. ● Create a binary file with roll number, name and marks. Input a roll number and update the marks. ● Write a random number generator that generates random numbers between 1 and 6 (simulates a dice). ● Write a Python program to implement a stack using list. ● Create a CSV file by entering user-id and password, read and search the password for given userid.
Entrepreneurship	<p>Project: Research Based Project (As per the shared CBSE guidelines)</p> <ol style="list-style-type: none"> a. Start working on the research file by writing the introduction, collecting pictures, articles, information and illustrations related to your topic. b. Also start designing the cover page of the file based on your research topic. c. Prepare your survey questionnaire for market analysis.
Economics	<p>(A) Project File: Prepare a Project file according to below mentioned format.</p> <p>Topic as per CBSE Curriculum selected by you and as per discussion in the class .</p> <ol style="list-style-type: none"> I. Cover page II. Certificate III. Acknowledgement IV. Index V. Introduction (Origin, History, Causes, consequences, pictures etc.) VI. Questionnaire VII. Findings of the study (pie chart, bar graphs, tabular form

- etc.
- VIII. Result (interpretation of the study)
- IX. Conclusion i.e. Summary of the study
- X. Suggestions (your own view point, individual or if group/ govt.)
- XI. Limitations of the study
- XII. Bibliography

Marking Scheme:

Marks are suggested to be given as –

S. No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

(B) Worksheets to be shared by Email.

Legal Studies

Project File :

Three Decided cases one must be Civil in nature, one Criminal and one constitutional in character.

The research on the cases **must include** the following points:-

- Name of the case
- Parties to the case
- Citation to the case
- Bench
- Nature of the case (Civil, Criminal Or Constitution)
- Facts of the case and issues involved
- Decision of the case including Ratio Decidendi and Obiter Dicta.

The topics are already given to the students in the class.