



## Class: XI Session 2023-2024

Dear Students,

As the warmth of the summer sun approaches, it's time to embrace the much-anticipated summer holidays! We hope this break provides you with ample opportunities to relax, recharge, and explore new horizons. However, before you embark on your well-deserved vacation, we have some exciting yet enriching homework assignments to keep your mind engaged during this period.

We believe that learning doesn't have to be confined to the four walls of a classroom, and the summer holidays offer the perfect canvas for expanding your knowledge and nurturing your creativity. These assignments are designed to provide you with a sense of adventure, intellectual stimulation, and personal growth.

Throughout the summer, our dedicated team of educators will be available to guide and support you whenever needed. Feel free to reach out to us for any clarification, inspiration, or assistance you may require on your homework assignments.

We eagerly await your return in the coming academic year to hear about your captivating experiences and witness the growth you have achieved. Make the most of this summer break, embrace the joy of learning, and let your enthusiasm shine through!

Wishing you a truly unforgettable and enriching summer holidays!

### 'TO-DO' LIST DURING THE HOLIDAYS:

- *Spend time outdoors, walking, playing, jogging etc.*
- *Speak to your friends, don't just message them on social media.*
- *If you are lucky enough to have siblings, plan some special time to hang-out together or play with them.*
- *Try to have meals without a mobile phone so that you can interact with your family members without distraction.*
- *Read good books. A few of them are suggested in this assignment too.*
- *Do something kind such as pulling weeds out in garden, watering the plants, helping your family members in their daily chores.*
- *Tidy your room and make your bed, you have plenty of time!*
- *Relax... and come back refreshed to take up school tasks with full zeal after vacation!*

## INSTRUCTIONS

- ❖ Entire work would be assessed for internal assessment.
- ❖ Work should be based on creativity, productivity and clarity.
- ❖ Punch the A-4 size sheets and submit in a single file for all subjects. Scrapbook to be submitted separately.
- ❖ Revise & prepare syllabus of PA-1 for upcoming exam for all subjects in the month of July for a glorious achievement.

### Sub: English

Prepare a file and neatly answer the questions that follow:

1. Every child is fortunate enough to have an adult in their life who instills such values in them that inspire to excel in a coveted field. Share your feelings in the form of a write-up regarding such a role model. Use your real-life experience, imagination and creativity. (150-200 words)
2. Find and write at least two poems each on the given topics: -
  - a. Patriotism
  - b. Childhood
  - c. Compassion
  - d. Friendship
3. Define and give two examples of the given Literary Devices - (any 10)
  - a. Alliteration
  - b. Simile
  - c. Metaphor
  - d. Personification
  - e. Pun
  - f. Oxymoron
  - g. Irony
  - h. Hyperbole
  - i. Allusion
  - j. Synecdoche
  - k. Transferred Epithet
  - l. Onomatopoeia
  - m. Assonance

### Sub: Mathematics

#### WORKING MODEL / PROJECTS

1. Make a working model on Relation and Function and also prepare a project report on it.  
<https://youtu.be/Jr3IJ41IwGU>
2. Make a project file, complete analysis of Venn Diagram.  
<https://youtu.be/6dVndG6F77A>
- Do worksheet no. 3 in your mathematics notebook.

## Sub: Political Science

Prepare a project as per the given guidelines on any one topic as suggested here:

**Suggested Topics: Students may choose any ONE topic from the given list.**

1. Making of the Constitution. (Constitutional provisions in respect of RAJASTHAN & NAGALAND)
2. Controversial Amendments/provisions in respect of the states of RAJASTHAN & NAGALAND) in the Indian Constitution
3. Human Rights Act and its gratification in India. (Comparison of HR conditions in RAJASTHAN & NAGALAND)

### A. The objectives of the project work:

Objectives of project work are to enable learners to:

- # Probe deeper into personal enquiry; initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI.
- # Analyse and evaluate real world scenario using theoretical constructs and arguments.
- # Demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work.
- # Follow aspects in which learners have interest.
- # Develop communication skills to argue logically.

### B. Steps involved in the conduct of the project:

Students may work upon the following lines as a suggested flow chart:

Choose a Title/Topic → Need of the Study, Objective of the Study → Hypothesis → Content -Timeline, Maps, Mind maps, Pictures, etc. → (Organization of Material/Data → Presenting Material/Data) → Analyzing the Material/Data facilitating Conclusion → Draw the Relevant Conclusion → Bibliography  
Note: The project should be handwritten: It should contain minimum 50 pages. The cover page of the project should be Art Integrated.

3. The marks will be allocated under the following heads:

Sr No	Components	Marks
1.	Introduction/overview	2
2	Diversity content	3
3	Presentation	3
4	Conclusion	1
5	Bibliography	1
6	Viva-voce	10
	Total	20

## Sub: History

1. Compare Indus Valley Civilization and Mesopotamia through a case study.
2. Compare and Contrast cultures of Rajasthan and Nagaland through various media art like, Sketch, Paintings, Tracings etc.

## Sub: Sanskrit

विशेष निर्देश:-

1. समस्त कार्य आंतरिक मूल्यांकन के अंतर्गत जाँचा जाएगा।
2. कार्य आकर्षक, सृजनात्मक और प्रस्तुति योग्य होना चाहिए।
3. इनके अंक परीक्षा में जोड़े जाएंगे।

मूल्यांकन बिंदु	कुल अंक 5
1. रचनात्मकता	2
2. वर्तनीगत शुद्धता	2
3. सुलेख	1

कार्य:-

1. 'एक भारत श्रेष्ठ भारत' विषयांतर्गत राजस्थान प्रदेशस्य अथवा नागालैंड प्रदेशस्य साहित्यकाराः विषये दश पंक्त्याः लिखत।
2. जन्मदिवसस्य कार्ड रचयित्वा तस्योपरि निज मित्रस्य विषये संस्कृते पञ्च वाक्यानि लिखत।

## Sub- Informatics Practices

Create a Project File that contains all of the Python programs done in the classroom, together with their results (the document will be shared with you on the WhatsApp group). Find the outcome of the programs by practising them at home.

## Sub: Business Studies

### Project 1 Case Study on a Product

Option 1. Prepare a Case study based comparative project report on seasonal growth and regular demand of produce of Rajasthan and Nagaland. For example cabbage, cauliflower, tomato, knol-khol, radish, carrot, french beans of Nagaland and barley, wheat, gram, pulses and oil seeds of Rajasthan.

Option 2. Prepare a chart or PPT and Case study based comparative project report on cash crop (**Cotton**) of Rajasthan and cash crops (**sugarcane** and **potato**) of Nagaland.

### Develop a Case Study on the following lines:

- (i) Research for change in price of the produce during season and off-season.
- (ii) Effect on prices in the absence of effective transport system.
- (iii) Effect on prices in the absence of suitable warehouse facilities.
- (iv) Duties performed by the warehouses.
- (v) Demand and supply situation of the produce during harvesting season, prices near the place of origin and at remote places.

Find out the importance of growing and selling such produce and their processed items along with the roles of Transport, Warehousing, Advertising, Banking, Insurance, Packaging, Whole selling, Retailing, Co-operative farming, Co-operative marketing etc.

### Following essentials are required to be fulfilled for its preparation and submission.

1. The total project will be in a file format, consisting of the recordings of the value of shares and the graphs.
2. The project will be handwritten.
3. The project will be presented neatly in a folder.
4. The project report will be developed in the following sequence:
  - Cover page should project the title, student information, school and year.

- List of contents (Index).
- Acknowledgements and Preface (acknowledging the institution, the newspapers read, T.V. channels viewed, places visited and persons who have helped).
- Topic with suitable heading.
- Planning and activities done during the project, if any.
- Observations and findings while conducting the project.
- News paper clippings to reflect the changes of share prices.
- Conclusions (summarized suggestions or findings, future scope of study).
- Appendix (if needed).

## ASSESSMENT

The marks will be allocated on the following heads.

1	Initiative, cooperativeness and participation	2 Mark
2	Creativity in presentation	2 Mark
3	Content, observation and research work	4 Marks
4	Analysis of situations	4 Marks
5	Viva	8 Marks
	Total	20 Marks

**For guidance you may follow the link: -**

- [https://cbseacademic.nic.in/web\\_material/CurriculumMain24/SrSec/BusinessStudies\\_SrSec\\_2023-24.pdf](https://cbseacademic.nic.in/web_material/CurriculumMain24/SrSec/BusinessStudies_SrSec_2023-24.pdf)
- Cotton Cultivation Project Report, Farming Cost, Profit | Agri Farming
- (pdf) cost and returns on various farm levels of selected major horticultural crops in the state of Nagaland and Manipur, India (researchgate.net)
- Consumer Protection Act (slideshare.net)

## Sub: Economics

### Portfolio

Topic

1. Effect on PPC due to various government policies
2. Invisible Hand (Adam Smith)
3. Opportunity Cost as an Economic Tool (taking real life situations)
4. Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
5. Effect on Equilibrium Prices in Local Market (taking real life situation or recent news)
6. Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
7. Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources
8. Bumper Production- Boon or Bane for the Farmer
9. Any other newspaper article and its evaluation on basis of economic principles
10. Any other topic

### Material to be used :

- A-3 size file
- Interleaf page
- Black and blue pen

**Instructions:** Students should make a portfolio an A3 size file using black pen, blue pen & colours.

## **Sub: Accountancy**

1. Worksheet of Ch-1 to 3
2. Project work:- (a) Concepts of Accounting
3. Accounting standards
4. Various terms of Accounting

## **Sub: Entrepreneurship**

Portfolio

- Topic :**
1. Entrepreneurship concept and functions
  2. An Entrepreneur
  3. Entrepreneurship journey
  4. Innovation and problems solving
  5. Understanding the market
  6. Business finance

### **Material to be used :**

- A-3 size file
- Interleaf page
- Black and blue pen

**Instructions:** Children will make a portfolio an A3 size file using black pen , blue pen & colours.

## **Sub: Fine arts**

1. Draw 50 sketches in A3 drawing book.  
(Include objects, human figures and human features and 5 layouts of compositions.)

## **Sub: Geography**

1) Prepare a Power Point Presentation.

**Topic:** World Climate and Climate Change on the following heads.

1. Meaning of Climate.
  2. Classify Climate based on various schemes by Koeppen with the help of a mind map in the slide.
  3. Describe the causes and effects of global warming.
  4. Evaluate the climate changes in the recent past.
- 2) Paste a political map of India mentioning all the states, union territories along with their capitals.

## **Sub: Psychology**

Q.1 Engage in practical activity related to psychology, such as observations to explore psychological concepts in real-life settings. Document your findings and observations in a journal or report format.

### **Guidelines-**

Identify the psychological concept: Select a specific psychological concept or theory that you want to explore through practical activity and observations. It could be related to cognitive processes, social behavior, personality traits, or any other area of psychology.

**Define the objectives:** Clearly outline the objectives of your practical activity. What do you hope to achieve through your observations? What specific aspects of the psychological concept are you interested in exploring?

**Select an appropriate setting:** Choose a real-life setting where you can observe and gather data related to the psychological concept. This could be a public place, such as a park, café, or shopping mall, or it could be a specific event or situation, such as a classroom or a social gathering.

**Obtain necessary permissions:** If your observations involve interacting with people or accessing private spaces, make sure to obtain any necessary permissions or approvals. Respect ethical guidelines and ensure the privacy and well-being of individuals involved.

**Prepare observation tools:** Develop a structured observation plan or checklist that will guide your data collection process. This could include specific behaviors, interactions, or events that you are looking for to gain insights into the psychological concept.

**Conduct the observations:** Begin your practical activity by carefully observing and documenting relevant behaviors, interactions, or events in the chosen setting. Take detailed notes of your observations, including specific examples and any patterns or trends you notice.

**Analyze your findings:** Review your documented observations and identify key patterns or themes related to the psychological concept you are exploring. Look for connections between different observations and draw preliminary conclusions or hypotheses based on the data.

**Reflect and interpret:** Reflect on the implications of your findings and consider how they relate to the existing literature or theories in psychology. Interpret your observations in the context of the psychological concept, and identify any limitations or potential biases in your observations.

**Document your findings:** Write a journal or report summarizing your practical activity, observations, and analysis. Structure your document in a clear and organized manner, including an introduction, methodology, findings, discussion, and conclusion.

**Share and discuss your findings:** Share your findings with peers, mentors, or psychology professionals for feedback and discussion. Engage in conversations to deepen your understanding of the psychological concept and receive input on the validity and implications of your observations.

Remember to adhere to ethical guidelines, respect privacy, and maintain objectivity throughout the entire process

**Q.2** Summarize the various research methods used in psychology, such as experiments, surveys, case studies, and observations. Explain the advantages and disadvantages of each method.

### **Guidelines**

**Experiments:**

**Advantages:** Provide control over variables, establish cause-and-effect relationships, and allow for rigorous testing of hypotheses.

**Disadvantages:** May lack ecological validity, ethical concerns regarding manipulation of variables, and potential demand characteristics or experimenter bias.

**Surveys:**

**Advantages:** Efficient for collecting large amounts of data from diverse samples, useful for studying attitudes, beliefs, and behaviors.

**Disadvantages:** Subject to response bias and inaccurate reporting, limited in-depth information, potential sampling bias, and difficulty establishing causality.

**Case Studies:**

**Advantages:** Offer in-depth exploration of unique individuals or phenomena, provide detailed qualitative data, can generate hypotheses for further research.

**Disadvantages:** Lack generalizability due to small sample sizes, subjective interpretation of data, potential researcher bias, and difficulty establishing causality.

Observations:

Advantages: Provide naturalistic and real-world data, useful for studying behavior in natural environments, and can generate rich qualitative data.

Disadvantages: Observer bias and subjectivity, lack of control over variables, difficulty in interpreting and generalizing findings, and potential reactivity from participants.

It's important to note that these methods can often be combined and complement each other in research studies, helping to overcome some of their individual limitations. Researchers should choose the most appropriate method based on their research question, resources, and ethical considerations.

## Sub: Physics

Dear Students, kindly note the following points:-

- It is an individual project.
- Design a cover page as per your imagination. To be written on A-4 sheets. Approx. no. of sheets- 15-20 sheets. The project is to be done using loose sheets - white/coloured A4 size sheets. The Project Report should be hand written by the students themselves.
- You have to arrange your project sheets according to the topics – **Objective, Introduction, Materials, Methodology, Data Collection and Analysis, Results and Discussion, Conclusion & References.**
- Keep your work neat, well-organized, and free from grammatical errors.
- Cite your sources for any information or images used.
- Demonstrate creativity, critical thinking, and a genuine interest in physics.
- Submit your completed projects in the format specified on 3<sup>rd</sup> July, 2023 (Monday).

### INVESTIGATORY PROJECT LIST

1. To study the conservation of energy of a simple pendulum using ticker -timer and tape. (Roll No. 1 & 2)
2. To study conservation of energy of a body falling freely, using ticker timer and tape. (Roll No. 3 & 4)
3. To study acceleration due to gravity with the help of ball rolling down an inclined plane and by applying the correction for rotatory motion. (Roll No. 5 & 6)
4. To study the effect of nature of surface on emission and absorption of radiation. (Roll No. 7 & 8)
5. To determine the coefficient of viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body. (Roll No. 9 & 10)
6. To determine the refractive indexes of various liquids by using hollow glass prism. (Roll No. 11 & 12)
7. To study the effect of temperature on the elasticity of rubber band. (Roll No. 13 & 14)
8. To study the tension on the pitch of a string. (Roll No. 15 & 16)
9. To study the effect of mass on terminal velocity. (Roll No. 17 to 22)

## Sub: Chemistry

1. Make a scientific investigatory project.  
Student can choose any one topic from following topics and make an investigatory project.
  - Checking the bacterial contamination in drinking water by testing sulphide ion
  - Study of the methods of purification of water
  - Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any).



- Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate in it
  - Study the acidity of different samples of tea leaves.
  - Determination of the rate of evaporation of different liquids.
  - Study the effect of acids and bases on the tensile strength of fibers
- Study of acidity of fruit and vegetable juices.

2. Make working model of any one-
  - Structure of atom (Roll no. 1 to 7)
  - 3D periodic table (Roll no. 8 to 15)
  - Bohr's atomic model (Roll no. 16 to 22)

### **Sub: Biology**

Dear Students, kindly note that the following points:-

- It is an individual project.
- Design a cover page as per your imagination. To be written on A-4 sheets. Approx. no. of sheets- 15-20 sheets. The project is to be done using loose sheets - white/coloured A4 size sheets. The Project Report should be hand written by the students themselves.
- You have to arrange your project sheets according to the topics – Certificate, Acknowledgment, Table of Content, Objective, Introduction, Materials, Methodology, Data Collection and Analysis, Results and Discussion, Conclusion & Bibliography.
- Keep your work neat, well-organized, and free from grammatical errors.
- Cite your sources for any information or images used.
- Demonstrate creativity, critical thinking, and a genuine interest in Biology.
- Submit your completed projects in the format specified on 3rd July, 2023 (Monday).

1. The Immune System and Microbial Infection
2. Components of food
3. Malnutrition.
4. Sickle Cell Anemia and its Prevention
5. Manures and Chemical Fertilizers
6. Green House Effect
7. Pollution
8. Non-Conventional Sources of Energy
9. Blood Pressure
10. Vermicomposting

### **Sub: Music**

1. Write biography of Tansen.
2. Write any one patriotic song of your choice in your music notebook.
3. Learn and practice Taal Keharwa.

### **Sub: Physical Education**

Complete lab manual file on Basketball.