



THE VOYAGE OF LEARNING

A Summer Message from the Desk of the Director

"Learning is a treasure that will follow its owner everywhere."

Dear Parents and Students,

As we approach the vibrant summer break, I extend my warmest wishes to all our students and their families. Vacations are a wonderful time to relax, rejuvenate, and create beautiful memories together. However, it is also a golden opportunity to keep the spark of curiosity alive.

📅 Important Summer Schedule

- **Summer Vacation Begins:** Monday 1 June, 2026
- **Summer Vacation Concludes:** Tuesday, 30th June 2026
- **School Reopens:** Wednesday, 1st July 2026 (at the usual school time)

Our **Holiday Homework** has been thoughtfully designed not as a burden, but as a bridge—a way to connect classroom learning with creative, real-world exploration from **1 June to 30th June**. It aims to foster independent thinking, creativity, and self-discipline in our students.

TO OUR DEAR STUDENTS

Use this time to read widely, explore new hobbies, and engage deeply with the projects assigned to you. Challenge yourselves, stay curious, and remember that consistent, daily efforts make learning effortless.

TO OUR RESPECTED PARENTS

We view education as a shared partnership. We kindly request you to guide and supervise your children as they work through their assignments. Encourage them to manage their time effectively so they can balance both recreation and learning throughout this break. Your encouragement is the greatest catalyst for their academic growth.

Let us utilize this break to discover new passions and return to school on **1st July, 2026** with renewed energy, enthusiasm, and a deeper love for learning.

We wish you all a safe, happy, and intellectually fulfilling summer vacation!

Warm regards,

Director

Jaycees Public School



JAYCEES PUBLIC SCHOOL RUDRAPUR
Summer Break Holiday Homework-(2026-27)
Class –XII(COMMERCE)

Mathematics

Total Duration: 30 Days

1. Relations and Functions (Days 1–6):

1. Revise types of relations – reflexive, symmetric, transitive.
2. Revise types of functions – one-one, onto, bijective.
3. Prepare a flowchart of function types.
4. Solve **5 HOTS** and **5 assertion-reason** questions.
5. Practice **previous year CBSE questions**.

2. Inverse Trigonometric Functions (Days 7–10):

1. Revise the concept of principal values.
2. Prepare a table of domains and ranges of inverse trigonometric functions.
3. Plot the graphs of inverse trigonometric functions and find their domain and range.
4. Solve **5 HOTS problems** and **3 case-based questions**.

3. Matrices (Days 11–17):

1. Revise types of matrices, operations, and properties.
2. Create a matrix chart (order, type, operations).
3. Solve **HOTS problems and MCQs** from sample papers.
4. Practice **real-life applications** of matrices.

4. Determinants (Days 18–23):

1. Revise properties of determinants.
2. Derive area of triangle using determinant.
3. Practice problems on adjoint, inverse, and consistency of equations.
4. Solve **assertion-reason** and **case-based problems**.

5. Continuity and Differentiability (Days 24–30):

1. Revise definition of continuity and differentiability.
2. Solve derivative problems of inverse trigonometric and exponential functions.
3. Solve **5 HOTS** and **3 application-based questions**.
4. Solve **mixed questions** from reference books or past year papers.
5. Attempt a final practice test (Full Syllabus of Chapters 1–5).

General Instructions

- Maintain a dedicated **Holiday Homework notebook** for all chapters.
- Use proper steps and labeling in all diagrams and graphs.
- Submit the completed notebook on the **first day after vacation**.
- Late submission may result in deduction of marks.

English

ENGLISH PROJECT (TO BE AND EVALUATED FOR INTERNAL ASSESSMENTS 26-27)

LIST OF TOPICS/THEMES

I) THE LAST LESSON- FREEDOM OF SPEECH AND EXPRESSION

- Linguistic chauvinism
- Importance of Language
- Globalization of Language
- Franco-Prussian War
- Historical References of Events wherein linguistic identity was threatened/snatched

II) LOST SPRING-LIFE IN A SLUM

- Research and case study of a slum.
- Life of the people in a slum
- Education
- Health and Infrastructure
- Government Initiatives
- Role of youth in the upliftment of the weaker sections of the society
- Comparative Study of Slums
- Slums of yesterday turned to cities of today.

III) DEEP WATER- PHOBIA

- Phobias and fears of people.
- Psychological and emotional impact.
- How to overcome.
- Impact on one's life and society
- Case Study

IV) JOURNEY TO THE END OF THE EARTH

- Role of Antarctica in sustenance of the globe.
- Existence of Gondwana and the dinosaurs.
- Climate change and the global warming
- Impact of human activities and threat for Antarctica
- Students on Ice – role and relevance
- Geoff Green – antarctic ambassador and global leader

TOPICS BEYOND BOOKS

- The Population Control Bill is the Right Step Forward.
- Unrestrained Freedom of Speech and Expression is the Pillar of Progressive Society.
- Where Humanity Fails, Pandemic Occurs
- Peace is Both a Right and Duty.
- Should Healthcare and Medicine be Provided Free by the Government?
- Childhood Vaccinations should be Compulsory.
- Juveniles should be tried and tested as adults.

(Attempt at least three – 200-300 words each)

PROJECT LAYOUT

1- Cover Page with title, school details, details of students

2- Statement of purpose/ Objective/ Goal

3- Certificate of Completion under the guidance of the teacher.

4- Action Plan

- 3-4 lines about the project.
- Research Tools and Methodology.
- Supporting Material-AV Aids/ PPT

5- Introduction of the Project.

6- Body of the Project

- Supporting Material
- Questionnaire

- Case Study
- Assignments
- Survey Report
- Transcripts
- Articles
- Interview

7-REPORT

8-STUDENT/GROUP REFLECTION

100-150 words paragraph about the experience and learning outcomes

9-PHOTOGRAPHS

10- LIST RESOURCES/ BIBLIOGRAPHY

Economics

Prepare the Project report on the topic's allotted below:

The students could follow the guide lines mentioned below for the project -

- Choose a title/topic
- Collection of the research material/data
- Organization of material/data
- Present material/data
- Analysing the material/data for conclusion
- Draw the relevant conclusion
- Presentation of the Project Work List of Projects according to Roll no's:

List of Topics-

- Micro and Small Scale Industries(Roll no. 1, 43)
- Contemporary Employment situation in India(Roll no. 2 ,44)
- Goods and Services Tax Act and its Impact on Suggestive List of Projects:(Roll no. 3, 45)
- Micro and Small Scale Industries(Roll no. 4, 46)
- Human Capital Formation(Roll no. 5, 47)
- Balance of Payment(Roll no. 6, 48)
- Banking System of India(Roll no. 7)
- Comparative study of India and neighbourhood countries(Roll no. 8, 49)
- Contemporary Employment situation in India(Roll no. 9, 50)
- Goods and Services Tax Act and its Impact on GDP(Roll no. 10, 51)
- Human Development Index(Roll no. 11, 52)
- Monetary policy committee and its functions(Roll no. 12, 53)
- Government Budget & its Components(Roll no. 13, 54)
- Exchange Rate determination - Methods and Techniques(Roll no. 14, 55)
- Monetary policy committee and its functions(Roll no. 15, 56)
- Government Budget & its Components(Roll no. 16, 57)
- Exchange Rate determination - Methods and Techniques(Roll no. 17, 58)
- Self-help group(Roll no. 18, 59)
- Livestock - Backbone of Rural India(Roll no. 19, 60)
- Sarv Siksha Abhiyan - Cost Ratio Benefits(Roll no. 20)
- Minimum Support Prices (Roll no. 21)
- Waste Management in India - Need of the hour(Roll no.22)
- Digital India- Step towards the future(Roll no.23)
- Vertical Farming an alternate way(Roll no. 24)
- The economics of GOLD(Roll no. 25)
- Make in India - The way ahead(Roll no. 26)

- Rise of Concrete Jungle- Trend Analysis(Roll no. 27)
- Any other newspaper article and its evaluation on basis of economic principles Food Supply Channel in India(Roll no.28)
- Disinvestment policy of the government (Roll no. 29)
- Health Expenditure (of any state or country) (Roll no. 30)
- Inclusive Growth Strategy(Roll no. 31)
- Trends in Credit availability in India(Roll no. 32)
- Role of RBI in Control of Credit(Roll no. 33)
- Trends in budgetary condition of India(Roll no.34)
- Currency War - reasons and repercussions(Roll no. 35)
- Alternate fuel-types and importance(Roll no. 36)
- Foreign exchange rate(Roll no. 37)
- Relation between Stock Price Index and Economic Health of Nation(Roll no. 38)
- Minimum Wage Rate - Approach and Application(Roll no. 39)
- Government budget(Roll no. 40)
- Bumper Production- Boon or Bane for the farmer(Roll no.41)
- Organic Farming - Back to the Nature(Roll no. 42)

Business Studies

PROJECT WORK

1ST JUNE to 15th June :

Introduction, Statement of Purpose/Need and Objective of the Study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Key Words, Methodology, Questionnaire, Data Collection. Significance and relevance of the topic; challenges encountered while conducting the research.

16th June to 30th June:

Content analysis and its relevance in the current scenario. Conclusion, Limitations, Bibliography, Annexure and Overall Presentation.

I. Project One: Elements of Business Environment

Topic 1: . Changes witnessed over the last few years on mode of packaging and its economic impact.

- a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.
- b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.
- c) Plastic furniture [doors and stools] gaining preference over wooden furniture.
- d) The origin of cardboard and the various stages of changes and growth.
- e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.
- f) Re use of packaging [bottles, jars and tins] to attract customers for their products.
- g) The concept of pyramid packaging for milk.
- h) Cost being borne by the consumer/manufacturer.
- i) Packaging used as means of advertisements.

Topic 2: Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties.

The students may be asked to enquire about

- a) Reasons of stopping the manufacturing of the above mentioned drinks in India
- b) The introduction of Thums up and Campa cola range.
- c) Re entry of Coke and introduction of Pepsi in the Indian market.
- d) Factors responsible for the change.

- e) Other linkages with the above.
- f) Leading brands and the company having the highest market share.
- g) Different local brands venturing in the Indian market.
- h) The rating of the above brands in the market.
- i) The survival and reasons of failure in competition with the international brands.
- j) Other observations made by the students

The teacher may develop the following on the above lines

Topic 3: Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family.

Topic 4: The changes in the pattern of import and export of different Products.

Topic 5: The trend in the changing interest rates and their effect on savings.

Project: 2: Principles of Management

The students are required to visit any one of the following:

1. A departmental store.
2. An Industrial unit.
3. A fast food outlet.

You are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

1. Division of work.
2. Unity of command.
3. Unity of direction.
4. Scalar chain
5. Espirit de corps
6. Fair remuneration to all.
7. Order.
8. Equity.
9. Discipline
10. Subordination of individual interest to general interest.
11. Initiative.
12. Centralisation and decentralisation.
13. Stability of tenure.
14. Authority and Responsibility

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management.:

1. Functional foremanship.
2. Standardisation and simplification of work.
3. Method study.
4. Motion Study.
5. Time Study.
6. Fatigue Study
7. Differential piece rate plan.

Project 3: Marketing (select any one product)

1. Adhesives 2. Air conditioners 3. Baby diapers 4. Bathing Soap 5. Bathroom cleaner
6. Bike 7. Blanket 8. Body Spray 9. Bread 10. Breakfast cereal 11. Butter 12. Camera
13. Car 14. Cheese spreads 15. Chocolate 16. Coffee 17. Cosmetology product 18.
Crayons 19. Crockery 20. Cutlery 21. Cycle 22. DTH 23. Eraser 24. e-wash 25.
Fairness cream 26. Fans 27. Fruit candy 28. Furniture 29. Hair Dye 30. Hair Oil 31.
Infant dress 32. Inverter 33. Jams 34. Jeans 35. Jewellery 36. Kurti 37. Ladies bag 38.
Ladies footwear (any other product of your choice)

Identify one product/service from the above which you may like to manufacture/provide [**pre-assumption**].

You are required to make a project on the identified product/service keeping in mind the following:

1. Why have they selected this product/service?
 2. Find out '5' competitive brands that exist in the market.
 3. What permission and licences would be required to make the product?
 4. What are your competitors Unique Selling Proposition.[U.S.P.]?
 5. Does your product have any range give details?
 6. What is the name of your product?
 7. Enlist its features.
 8. Draw the 'Label' of your product.
 9. Draw a logo for your product.
 10. Draft a tag line.
 11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesalerWhat is the profit margin in percentage to the Manufacturer, Wholesaler, and Retailer.
 12. How will your product be packaged?
 13. Which channel of distribution are you going to use? Give reasons for selection?
 14. Decisions related to warehousing, state reasons.
 15. What is going to be your selling price?
 - (i) To consumer
 - (ii) To retailer
 - (iii) To wholesaler
 16. List 5 ways of promoting your product.
 17. Any schemes for
 - (i) The wholesaler
 - (ii) The retailer
 - (iii) The consumer
 18. What is going to be your 'U.S.P'?
 19. What means of transport you will use and why?
 20. Draft a social message for your label.
 21. What cost effective techniques will you follow for your product.
 22. What cost effective techniques will you follow for your promotion plan.
- At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.

- Product
- Place
- Price

- Promotion

On the basis of the work done by you the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.
9. Decisions related to transportation and warehousing. State reasons.
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization

Presentation and Submission of Project Report

At the end of the stipulated term, each student will prepare and submit his/her project report.

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

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
 - Cover page should include the title of the Project, student information, school and year.
 - List of contents.
 - Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
 - Introduction.
 - Topic with suitable heading.
 - Planning and activities done during the project, if any.
 - Observations and findings of the visit.
 - Conclusions (summarized suggestions or findings, future scope of study).
 - Photographs (if any).
 - Appendix
 - Teacher's observation.

ACCOUNTANCY

Project Work

One specific project based on financial statement analysis of a company covering any two aspects from the following:

1. Comparative and common size financial statements
2. Accounting Ratios
3. Segment Reports

Project Guidelines Choose a company like Reliance Industries or Infosys with 2 years' financial data.

- Select any two topics:

1. Comparative & Common Size Statements
 2. Accounting Ratios
 3. Segment Reporting
-

What to Do

- Prepare tables and calculations
 - Use formulas correctly
 - Add graphs/charts
 - Explain results (interpretation is important)
-

Project Format

- Cover Page
 - Certificate & Acknowledgement
 - Index
 - Introduction & Company Profile
 - Data & Analysis
 - Conclusion
-

Keep in Mind

- Keep it neat and well-presented
- Don't copy—understand your work

Focus more on analysis than theory

PHYSICAL EDUCATION

Note- Practical 1 and Practical 2 work will be done in Lab Manual and Practical 3 work will be done in File Only.

- Practical-1: Fitness tests administration. (SAI Khelo India Test)
- Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
- Practical-3: Anyone one IOA recognized Sport/Game (Team Game) of choice. Labelled diagram of Field & Equipment. Also, mention its Rules, Terminologies & Skills.

Computer Science

Write following Python Programs in Practical Note Book

- 1.) Write definition of a **method/function AddOddEven(VALUES) to return sum of odd and even values separately** from the list of VALUES. Also **write main program** to display the sums returned
For example : If VALUES = [15, 26, 37, 10, 22, 13].
The main program should display
Even Sum: 58 Odd Sum: 65
- 2.) Define a **function in SUM7(L)** in Python to **sum all the values ending with 7**, which are stored in list L passed as argument.
For example : If L = [7, 26, 37, 107, 722, 173].
The main program should display
Even Sum: =151
i.e. Sum of 7, 37 and 107
- 3.) Write **4- separate questions using functions** for read, write, append and search operations on a Python Text File.

- 4.) Write **4- separate questions using functions** for read, write , append and update operations on a Python Binary File.

Fine arts

A Brief Introduction to Indian Miniature Schools & Rajasthani School of Miniature Painting and Pahadi school of miniature painting.

SHORT ANSWER TYPE QUESTIONS

- Q1. Kalpasutra and kalkacharya katha are the painted manuscripts of which school?
Q2. Who were the main patrons of western school of painting?
Q3. Where was Astasahasrika Prajnaparamita painted?
Q4. Who coined the term 'Rajput painting' to refer to the Rajasthani miniatures?
Q5. What was the material used to make brushes for miniatures?
Q6. The lock of hair hanging near the ear is a special feature of which painting?
Q7. Who composed Gita Govinda?
Q8. Who wrote bihari satsai?
Q9. Who composed Rasmanjari?
Q10. "Bharat meets Rama at chitrakoot" belongs to which school of Rajasthani miniatures?
Q11. Who painted Radha "Bani Thani"?
Q12. Under whose patronage , krishangarh style of painting flourished?
Q13. Where is pichwai art famous?
Q14. The great artist "nuruddin" belongs to which sub-school of Rajasthani school of miniature painting?
Q15. Who made the first scientific division of Rajasthani painting?
Q16. Who has painting the miniature title,"Nanda, Yashoda & Krishna with kinsman going to Vrindavan"?
Q17. Who is the artist of the painting "Krishna with Gopis"?
Q18. Nainsukh is a painter of which sub school?
Q19. In which painting ,an episode of Bhagvat Purana had been depicted?
Q20. The period of which Pahari ruler is called "The Golden Period of Kangra School "?
Q21. What is the style used in Kangra paintings?
Q22. When is the pahari painting style considered to have started?
Q23. In what form are the eyes of women made in kangra style?
Q24. Name the school of pahari art?
Q25. Pahari style was mainly influenced by which style?
Q26. The use of beetle wings in paintings can be seen in which style?
Q27. 'Dana' was a painter of which genre?
Q28. Which was the oldest center of Rajasthani art?
Q29. Who is credited with the origin of Bikaner style ?
Q30. By what names are the Rajput style painting are also known?

PAINTING

1. Nature & Object Study (Still Life)

Practice observing light, shadow, and texture. These are foundational for your practical exams.

Task: Create 3 Still Life drawings.

Subjects: A composition of household objects (e.g., a kettle, a draped cloth, and a fruit bowl) or a group of geometric shapes.

Medium: Use Pencil Shading (2B to 8B) or Charcoal for one, and Watercolors or Oil Pastels

for the others.

Focus: Accurate proportions, tonal values, and the "cast shadow" of the objects.

2. Composition Painting

This section tests your ability to tell a story through art.

Task: Create 2 Original Compositions on A4 size sheets.

Themes:

Indian Festival: (e.g., Diwali celebrations, Holi, or a village fair).

Daily Life: (e.g., A vegetable vendor, children playing, or a railway station scene).

Medium: Poster colors or Watercolors.

Focus: Human figures in action, perspective, and a balanced color scheme.

3. Traditional Indian Art (Folk Art)

Class 12 painting often includes a study of India's rich artistic heritage.

Task: Complete one detailed work of a traditional Indian art style.

Styles to choose from: Madhubani, Warli, Pattachitra, or Miniature style.

Medium: Fine-liner pens, Acrylics, or Poster colors.