



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(HUMANITIES)

Geography

Topics

1. On an outline map of India mark:

- * Major rivers
- * Dams
- * IT hubs
- * Mineral regions
- * Population dense states
- * International airports

2. Choose any ONE topic:

- * Urbanization
- * Water scarcity
- * Climate change
- * Migration
- * Pollution
- * Sustainable agriculture

Prepare:

- * Case study
- * Newspaper clipping collection
- * 5 self-written solutions

3. One awareness poster/cartoon

My Eco-Friendly Locality”

Include:

- * Waste management practices
- * Water conservation
- * Plantation efforts
- * Pollution problems
- * Sustainable solutions

Innovative Element

Design your own:

- * Green city logo OR
- * Slogan campaign

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.

PSYCHOLOGY

1. PRACTICAL FILE WORK

Students have to complete their Psychology Practical File properly and neatly.

The practical file that will be provided/shared by the teacher must be completed for the Board Practical Examination, as it will carry your practical marks in Class XII Psychology.

Instructions:

- Complete all the practicals neatly in the practical notebook.
- Maintain proper headings and format.
- Draw tables wherever required.
- Use blue/black pen only.
- Practical work should be handwritten.
- Keep the file clean and well-maintained.

2. CASE STUDY

Students are required to prepare a handwritten case study project on ***any one psychological disorder***, topics are already allotted.

The project should include the following headings:

- Introduction
- Symptoms
- Cause/ etiology
- Identification of data
- Case history
- Family background and past childhood issues
- History of problem
- Recording signs
- Treatment
- Concluding comments
- Bibliography

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/ BIBLIOGRAPHYY

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)

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.

HISTORY

Activity:-Make a Project Report on given topic. Instructions:- All students must prepare a project report on assigned topic very sincerely by keeping following points in mind: 1. File must contain 15-18 pages of well described topics and sub-topics. 2. While making project report Headings must be with black- pen, Sub-headings with brown-pen and description with blue ball pen only(Red, Green etc. colours are not allowed to use for making project report) 3. File must consist of the front page (with School logo, School Affiliation no., Subject,

Subject Code, Topic, Submitted to..... and Submitted by..... in its format) 4. It must include certificate and acknowledgement page. 5. It must also include Index, Objectives, Introduction followed by description of Topics and Sub-Topics along with map, images, data etc. separately. 6. Before last page add 10 Viva-Questions within 1 or 2 pages (either one word or m.c.q type) along with their answers. 7. The last page must consist of Bibliography 8. At the cover the file with black chart paper.

Political Science

A. Prepare a Practical Project File on any of the following topics mentioned below :-

1. NAM-1961 to present times.
2. Division of Germany with special focus on the construction and dismantling of the Berlin Wall.
3. CIS-Central Asian Republics
4. Disintegration of USSR with special focus on Gorbachev.
5. Arab Spring
6. Cover the negative as well as positive aspects of relationship between India and the following countries.

Focus on any one of the following (current updates should be highlighted):

- a) Relationship between India and Russia
- b) Relationship between India and China
- c) Relationship between India and Pakistan
- d) Relationship between India and Bangladesh
7. ASEAN
8. European Union and India
9. BRICS
10. SAARC
11. India's Nuclear Policy
12. United Nations with focus on India's candidature in Security Council.
13. UN Agencies - UNICEF, UNESCO, WHO
14. Pandemics: Covid 19- Its global impact (focus on worldwide cooperation and preparedness along with controversies (please collect newspaper clippings for the same)
15. Partition of India-Theory behind it and its legacy
16. Comparison between NITI AAYOG and Planning Commission and their contribution in India's Development.
17. Election Commission of India and Electoral Roll and its revision
18. Elections 2019- Rise of BJP and Downfall of Congress (1989-2019).
19. Imposition of Emergency in India
20. NDA III and NDA IV - Social and Economic welfare programmes.

B. Map Work

On a political world map, locate and label:

USA, Russia, India, China, Pakistan, Cuba

C. Newspaper Activity

Paste two newspaper articles related to:

- a) International relations
- b) Indian politics

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.