



# ANAND PUBLIC SCHOOL

“Summer vacation is the best time for families to slow down, reconnect, and spend meaningful ‘US’ time together.”

Dear Parents,

Summer Vacation offers a refreshing break for children - a chance to relax, explore, and rejuvenate. More than just a pause from school work, it's a precious time to nurture bonds, foster creativity and plant the seeds of values and memories that last a lifetime.

Children may not remember every toy they receive, but they will always carry the warmth of stories told, meals shared and moments spent with their loved ones. Let's use this opportunity to guide, support and connect with them in ways that matter most.

**Below are few suggestions:-**

1. All homework must be written clearly and neatly.
2. Assignments should be completed independently by the students. Parental support is encouraged, but the effort should reflect the child's own capabilities.
3. Try conversing in English to help them be comfortable with the language.
4. Ensure that all work is completed within the given time frame.
5. Holidays homework will be assessed and carry weight in evaluations across all subjects.
6. Children are likely to follow their routine if we give them Positive instructions and lots of praise/appreciation for what they do right.
7. Science week is celebrated in the month of July to enhance the scientific attitude.
8. Encourage daily reading. Cultivating a reading habit is key to lifelong learning.

## DATESHEET FOR P.T. - 2

## DATESHEET FOR P.T. - 3

| DATE          | IX      | XI                  | X       | XII                 |
|---------------|---------|---------------------|---------|---------------------|
| JULY 08, 2025 | English | Phy. Edu.           | I.T.    | Phy. Edu.           |
| JULY 11, 2025 | Hindi   | Acc./Phy./Pol. Sci. | Hindi   | Acc./Phy./Pol. Sci. |
| JULY 15, 2025 | Science | English             | Science | English             |
| JULY 18, 2025 | S.St.   | B.Std./Chem./Hindi  | S.St.   | B.Std./Chem./Hindi  |
| JULY 22, 2025 | Maths   | Eco./Bio.           | Maths   | Eco./Bio.           |
| JULY 25, 2025 | I.T.    | Maths               | English | Maths               |
| JULY 26, 2025 | .....   | Music               | .....   | Music               |

**School will reopen on July 02, 2025 (Wednesday)**

Holidays Homework will be uploaded on E-Care and our website.  
Wishing You all a joyful, relaxing and enriching Summer Break  
Enjoy, Enrich, Empower!



# HOLIDAYS HOMEWORK

## Class XII

### **Biology**

- 1) Make related to a Project file on your Syllabus.
- 2) Complete your Practical file.
- 3) Learn 1 to 5 Lessons.

### **PT-3 Syllabus**

Lesson 4, 5, 6 (Half)

### **Assignment**

Lesson- Molecular basic of Inheritance

- 1) (a) Draw a schematic, self-explanatory Labeled diagram of lac operon in a switched on condition.  
(b) Why regulation gas, lac operon is referred to as negative sequeletion?
- 2) (i) Why did Hershey and Chase use  $s^{35}$  and  $^{32}p$  in their experiment? Explain  
(ii) State the importance of (a) blending (b)centrifugation in their Experiment.  
(ii) Centrifugation Condition they arrived at the end of their experiment.
- 3) Protein synthesis requires the services of all these types of RNAs namely t-RNA ,mRNA and rRNA Explain the role of each of them during the process Of protein synthesis prokaryotes.
- 4) Name and describe the steps involved in the technique widely. Used in forenscis that serves as the basis of paternity testing in case of disputes.
- 5) Observe the segment of mRNA given below
  - a) Explain and illustrate the steps involved to make fully processed hnRNA?

b) Gene encoding RNA polymerase I and III have been affected by mutation in a Cell, Explain its impact on the of polypeptide, stating Reasons

6) Summarize the process by which the Sequence of DNA bases in human genome project was determined using the method developed by Frederick Sanger. Name a free living non- pathogenic nematode whose DNA has been completed sequenced.

7) List the various markers that are used in DNA fingerprinting.

8) Discuss in detail human Genome project.

9. (a) Draw Labeled diagram of a replicating fork showing the polarity. Why does DNA replication occur within such forks? (6) Name two enzymes involved in the process of DNA replication along with their properties.

10. (a) Why does DNA replication occur in small replication forks and not in its entire length?

(b) Why is DNA replication continuous and discontinuous in a replication fork?

(c) State the importance of Origin of replication in replication fork.

11. What is nucleosome? How many base pairs are present in a typical nucleosome.

12. Explain Semiconservative mode of DNA Replication.

13. Why is DNA molecule a more stable genetic material than RNA? Explain

14. Draw a Labeled schematic structure of transcription unit the function of each Component of the unit in the process of transcription.

15. How is the translation of mRNA terminated? Explain

### **Chemistry:**

- 1) Do practical- 1.1,1.2, 2.1, 6.1, 6.2, 7.1, 10.1, 10.2
- 2) Prepare an assignment on any one chapter.
- 3) Prepare investigated report on the topic given in class group.
- 4) Complete your notebook

### **Physics:**

- 1) Write eight experiment (four from each section)
- 2) Write six activities(three from each section)
- 3) Prepare project report on the given topic.
- 4) Practice at least 50 numerical from ch-1 to ch-6

### **Mathematics:**

- 1) Assignment on relation and function (minimum 15 pages)
- 2) Chart on invers trigonometry graph (for girls)
- 3) Chart on invers trigonometry property (for boys)
- 4) Complete 1-15 math's practical in your practical file.
- 5) Revise Ch-1 to Ch-8

### **Accountancy:**

- 1) Practical file for final board exam.
- 2) Comprehensive problem.
- 3) Specify problem.
- 4) Revise: part A vol. 1 ch-1 to ch-5 (40 marks class test after holidays)



## **Business Studies:**

- 1) Practical file for final board exam.
- 2) Topic-
  - Principle of management
  - Marketing management
  - Business Environment
  - SEBI/(security exchange board of India)
- 3) Revise- Ch. 3, 4, 5 (40 marks class test after holidays)

## **Economic:**

- 1) Prepare project file topics-
  - a. Government budget (Roll no. 1-15)
  - b. Indian economy on the eve of independence (Roll no. 16- 30)
  - c. Rural development (Roll no. 31-45)
  - d. Employment (Roll no. 46-58)
- 2) Revise and draw diagrams/schedule of chapter of P.T-3
  - AD and its components
  - Short run equilibrium of income/output
  - Problems of excess and deficient demand
- 3) Read all Syllabus done in class

## **Political Science:**

### **Project File**

Chapter 1 (End of Bipolarity)    Chapter 2 (New Centres of Power)

Chapter 7 (Globalization)

### **P.T-3 Syllabus (Part A):**

Ch - 4 (United Nation)

Ch - 5 (Security in contemporary world)

### **Part B:**

Ch - 4 (Indian's external relations)

## Hindi

1) Prepare project work

### Topic:

22 अप्रैल को पहलगाम में हुआ आतंकवादी हमला तथा ऑपरेशन सिन्दूर से संबंधित घटनाओं का चित्र सहित वर्णन कर एक सुंदर सी परियोजना तैयार करें।

2) अभिव्यक्ति और माध्यम: पाठ 1, 2

P.T-3 Syllabus

कविता:- पाठ-4 कैमरे में बंद अपाहिज, पाठ-6 उषा

पाठ-17 शिरीष के फूल

वितान:- पाठ-2 (जूझ)

अभिव्यक्ति और माध्यम:- पाठ-2 (विशेष लेखन) रचनात्मक लेखन

## Physical Education:

1) Complete Practical work

- Basketball game (History, Measurement, Rules & Basic Skills)
- Yoga Practice

2) Project work

- SAI Khelo India Fitness Test

3) Learning work Ch. 8 (Biomechanics in Sports)

## Music:

- 1) Unit 1 to 4 write in fair note book
- 2) Syllabus for PT 3

Unit 3, 4, 5

- 1) Prepare Practical file

1. ताल की परिभाषा।
2. तालों का संक्षिप्त परिचय। झपताल, रूपक ताल, धमार ताल
3. रागों का संपूर्ण परिचय। राग मालकौंस, राग भैरव, राग बागेश्री
4. द्रुत ख्याल:- राग मालकौंस, राग भैरव
5. विलंबित ख्याल राग भैरव
6. तानपुरे की उत्पत्ति एवं विकास
7. तानपुरे के विभिन्न भाग
8. तानपुरे के तार और उन्हें मिलाने की विधि
9. संगीत रत्नाकर
10. संगीत पारिजात
11. उस्ताद बड़े गुलाम अली खान
12. उस्ताद फैयाज खाँ
13. कृष्ण राव शंकर पंडित

## **English:**

Complete the following assignments neatly in your English Holiday Homework note book.

### **2. Notice Writing:**

#### **Part A-Writing Skills Practice**

1. Your school is organizing a workshop on Cyber Safety for students. Draft a notice inviting students to attend the workshop.
2. You have lost your library card on the school premises. Write a notice for the school notice board.
3. As the Secretary of the Music Club of your school, draft a notice inviting students to audition for the Annual Music Competition.
3. Your school is organizing a tree plantation drive on the occasion of World Environment Day. Write a notice informing students about the event.

### **3. Job Application:**

1. You are a qualified accountant seeking a job in a reputed firm. Draft a job application with a resume.
2. Apply for the post of an English teacher at a public school, giving your academic and professional details.
3. Draft an application for the post of a Content Writer in an online education company.
4. Write an application for the post of a Receptionist in a multinational company.

### **4. Letter to the editor**

1. Write a letter to the editor of a national daily highlighting the need to ban the use of plastic bags.
2. Write a letter to the editor expressing concern over the rising cases of cybercrime.
3. Write a letter to the editor regarding the increasing traffic jams and suggest solutions.
4. Write a letter to the editor about the neglect of historical monuments and suggest measures for their preservation.





### **5. Article Writing:**

1. Write an article on "The Role of Technology in Modern Education."
2. Write an article on "Fitness and Healthy Living in the Modern Age."
3. Write an article on "Impact of Social Media on Youth."
4. Write an article on "The Importance of Mental Health Awareness."

### **6. Report Writing:**

1. Write a report on the Annual Science Exhibition held in your school.
2. Write a report for your school magazine about the Swachh Bharat Abhiyan drive carried out in your school.
3. As the Cultural Secretary, write a report on the Inter-School Debate Competition organized by your school.
4. Write a report on a blood donation camp organized by your school in collaboration with a local hospital.