

DAV PUBLIC SCHOOL, PUSHPANJALI ENCLAVE
SUMMER BREAK HOMEWORK (SESSION 2026-27)

Class XII

*"Every hour you study is an investment in your future"
Stay positive, Study hard, do good, and the good life will follow.
Eat healthy, take proper rest. Value Time and People.*

►► ENGLISH

- * Revise for the First Terminal exams.
- * Do the Extra Qs given in your Fair copy.
- * Read all the lessons thoroughly.
- * Decide / finalize your 'group' and the 'topic' for the Project work.
- * Practice - writing short and long answers (Lit.), expressing on issues/ topics of social and contemporary importance.
- * Read good books by celebrated authors and prepare reviews for Speaking skills assessment. Eg Amish Tripathi, Ashwin Sanghi, Chitra Banerjee Divakaruni, Devdutt Pattanaik etc.

►► PHYSICS

1. Revise the chapters done in the class for term-1 exam. -XII Physics First term Electric Charges and Field , Electrostatic Potential and Capacitance ,Current Electricity
2. Practice assignments shared in the class groups.
3. Practice multiple choice questions, competency based questions and numericals for the topics covered in the class.
4. Complete your practical files
5. Do research work for your project.

►► CHEMISTRY

- 1) Revise the following chapters- solutions , chemical kinetics, Biomolecules, Electrochemistry .
- 2) Practice the Ncert numericals , questions and assignments
- 3) Practice objective type questions of the above mentioned chapters.
- 4) Complete your Practical Files.
- 5) Complete your project presentation work.

►► BIOLOGY

- To complete the file and the Project Report
- Prepare the chapters Principles of Inheritance, Molecular Basis of Inheritance and Microbes in Human welfare for the first term examination.

►► **COMPUTER SCIENCE**

- Revise the Syllabus for First Term Examination.

Unit I: Computational Thinking and Programming

- Revision of Python topics covered in Class XI.
- Functions
- Exception Handling
- Introduction to files, types of files (Text file, Binary file)
- Text file
- Binary file
- Data Structure: Stack

XI NCERT BOOK: Ch-5,6,7,8,9, 10 (Python Introduction, Functions)

XII NCERT BOOK: Ch-1,2,3

- Practice and complete Python practicals shared for the Practical file.

►► **MATHEMATICS**

- Complete the maths activity file.
- Revise for the first term examination
- Do the assignments in the assignment register. Link for the same is shared below.
- https://drive.google.com/drive/folders/1--FQccDNOKYrXzf3rVLJUK6cspk-h2CJ?usp=share_link

►► **BUSINESS STUDIES**

1. Complete the assignment given for chapter 2 and 3.
2. Prepare project on the assigned topics in business studies.
3. Revise for first term examination.

►► **ECONOMICS**

- Complete the given assignments.
- Prepare the synopsis for the economics project
- Revise for the first term examination

►► **ACCOUNTANCY**

1. Do text book questions of the chapter Admission of a Partner
2. Go through the Financial Statements of a company for Project Work.
3. Prepare well for the Term 1 exam.
 - Topics
 - Fundamentals of Partnership
 - Goodwill
 - Change in PSR
 - Admission of a partner
4. Complete the assignments shared in class group.

►► GEOGRAPHY

Revise for I Term examination

Complete the assigned practical work according to the instructions given in class.

►► HOME SCIENCE

1. Revise for first term examination.
2. Do extra questions for the topics covered in the class.
3. Complete your project files.

►► FOOD PRODUCTION

1. Revise for first term examination.
2. Do extra questions for the topics covered in the class.
3. Complete your practical files.

►► INFORMATICS PRACTICES (IP)

- Prepare for the First Term Exam (35 marks).
Syllabus:
Unit 2: Database Query using SQL (15 marks)
Unit 3: Introduction to Computer Networks (10 marks)
Unit 4: Societal Impacts (10 marks)
(XII IP NCERT BOOK CH-1, 5, 6 + XI MySQL)
- Complete the Practical File.
- Prepare Project Synopsis and Work on the Project as discussed in the class.

►► PSYCHOLOGY

1. Work on Case Profile.(data collection and compilation)
2. Report writing of RSPM
3. Revise for First Term Examination.

►► HISTORY

A. Revise Book-1 - Term-1 Syllabus - Lesson 1 to 4

B. Select your project topic and conduct related research work.

C. Art Integration - Activity - Make a 2-3min video film/PPT/Audio file on any one of the following -

1. Monuments of Vijaynagara
2. Sites of Indus Valley
3. Inscriptions of Ashoka
4. Sufi and Bhakti devotional songs
5. Art forms inspired by Mahabharata
6. Indian National Movement
7. Revolt of 1857

►► **MARKETING**

1. Prepare a Project Report on any of the allotted topics.
2. Complete the given assignments for the Units- Product Mix and Place Mix.
3. Prepare well for the first term examination.

►► **ARTIFICIAL INTELLIGENCE**

1. Complete the Capstone project -
Capstone project format -
<https://drive.google.com/file/d/1hThC8bXwsvWppNI6BGUTIgUYJbk7SqwJ/view?usp=sharing>
2. Please complete the following activities in your Practical File and paste the screenshots of your work as evidence. The tasks are to be done using Orange Data Mining software.

Activity 1: Titanic Survival Prediction (Classification Task)

Imagine you are part of a historical research team analyzing data from the Titanic disaster. Your objective is to predict whether a passenger survived based on features such as age, gender, class, and fare.

Use the classification model in Orange to uncover patterns in survival rates and draw meaningful historical insights.

Activity 2: Image Clustering (Hierarchical Clustering)

Collect a set of images of birds and animals, place them randomly in a folder.

Using Hierarchical Clustering in Orange, create clusters that group the images into birds and animals based on visual similarities.

Paste screenshots showing the clustering output and analysis.

Activity 3: Movie Review Analysis (Text Mining & Visualization)

You are working as a data analyst for a movie streaming platform. The company wants to analyze customer reviews to understand common sentiments and themes.

Using Orange, perform the following:

- Preprocess the text data (tokenize, remove stopwords, etc.)
- Visualize the most frequently used words using a word cloud or frequency chart.

Submit the practical file with screenshots pasted neatly under each activity. If you face any issues, feel free to reach out for guidance. Happy learning!

►► **PHYSICAL ACTIVITY TRAINER (PAT)**

*Complete following work in A4 size sheets and compile them in a file.(A4 size should be one side ruled one side blank)

First page -: Explain Health related fitness.

2. Checklist

*Teacher observation checklist figure 1.1 page 7

* Self assessment for basketball dribbling figure 1.4 page 10

*Checklist for assessment figure 1.5 page 13

*Base data input sheet fig 1.8 page20

- *Fitness assessment table page 22,23
- *Fitness assessment input sheet fig. 1.9 page 20
- 2. Rubric for skill assessment page 14 figure 1.6
- 3. Sample norm for grade 4 for standing broad jump figure 1.7 page 15
- 4. Two type of grading scales page 29, 30
- 5. First aid -definition purpose ,principle page 40
- 6. Sign and symptoms and emergency first aid of heat stroke, allergic reactions, asthma ,heat exhaustion page 35,36
- 7. Explain CPR with steps and recommended chest compressions page 36,37, 38
- 8. DR ABC of first aid page 39 and 40
- 9. Explain choking and its first aid page 42 and 43
- 10.. Basics sports injuries sprain and strain and its first aid RICE page 43 44
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- 11. Explain low frequency and high frequency inspection page 49
- 12. Personal items and kids (inspection cleaning storage) page 51
- 13. Questionnaire on playground and common area page 57
- 14. Safety rules while playing and in the swimming pool page 57 58

►► **POLITICAL SCIENCE**

- A. Select your project topic and Prepare the project file according to the instructions given in the class.
- B. Revise the syllabus (Politics in Since Independence ch1 to ch-4) covered till now for 1st Term examination.
- C. Solve the assignment shared in class group.

STAY BLESSED, STAY HAPPY!