



DAV POLICE PUBLIC SCHOOL, PANCHKULA



SUMMER HOLIDAYS HOMEWORK 2024-2025 CLASS – XII-SCIENCE

Dear Students,

Please note the following points:

1. Ensure that Practical files/Projects as per CBSE norms should be completed as assigned subject wise.
2. Regular revision and practice of Theory/Numericals should be a part of daily schedule.
3. Use the items which are easily available at home (wherever required).

Below is the summer holidays homework for the session 2024-25 subject wise. The completed work must be submitted on the following dates:

| SUBJECT | SUBMISSION DATE |
|------------------------|-----------------|
| ENGLISH | 2.7.2023 |
| MATHS/BIOLOGY | 3.7.2023 |
| P.E/FINE ARTS/MUSIC/IP | 4.7.2023 |
| PHYSICS | 5.7.2023 |
| CHEMISTRY | 6.7.2023 |

ENGLISH

I: READING TASK:

Read English newspaper daily and listen to English news, programmes and interesting talk shows.

II: LEARNING TASK:

a. Memorise, practice and revise all the content completed till May 2024 month thoroughly along with the preparation of upcoming Unit Test- II.

b. Flamingo

(Prose)

- The Last Lesson
- Lost Spring
- Deep Water
- The Rattrap

(Poetry)

- My Mother at Sixty-Six
- Keeping Quiet

Vistas

(Prose)

- The Third Level
- The Tiger King

c. UNSEEN PASSAGE (TYPE I)

d. Notice Writing & Letter to the Editor

III: WRITING TASK:

a. Download **English worksheets PDF**, solve/do and paste it in the English fair Register.

b. Practice, solve and Complete in the space provided in **BBC Compacta Module One(Reading)- Homework Assignments- 2,3,4,5,6; Module Two (Writing I)- CA-9, PA-9, HA-9 & Module Three (Writing II)- HA-12,13.**

c. While diving into deep sea of literature, we come across many 'whales and octopuses' termed as **literary devices and terms**. Holidays are the best time to know and learn more about them. Let us write some of them in the fair notebook defining and giving examples of:

Metaphor, Simile, Imagery, Symbolism, Personification, Hyperbole, Irony, Juxtaposition, Enjambment, Paradox, Allusion, Allegory, Onomatopoeia, Pun, Free verse, Dramatic, Irony.

IV: ART INTEGRATION:

SAY NO TO WAR

“An eye for an eye only ends up making the whole world blind.” Mahatma Gandhi

You have studied the lesson ‘The Last Lesson’ by Alphonse Daudet. It deals with war and the long-lasting effects it has on the society at large especially effect on life at school, language. Based on your understanding of the lesson and the problem it mentions, make a project titled ‘SAY NO TO WAR’

Include the following sub-headings:

- Definition of war
- Effects on social, economic environment [include school, language]
- Cost, in terms of money and lives
- Important international treaties
- Prevention and elimination of wars
- Any 1 war – Make a case study on War History of Manipur (800 - 1000 words) and furnish all details and statistics. Attach 3-4 pictures.

CONTENT OF THE PROJECT FILE:

The project file should include the following:

- **Cover page**, with the title of the project, school details and details of the student
- **Certificate of Completion** under the guidance of the teacher
- **Objectives** of the topic
- **Essay/report** should be written in 800-1000 words.
- **Student reflections** (the new learning experience/outcome achieved after completing the project)
- **Photographs** that capture positive learning experience of the students (collages/pics from various online sources) can be pasted.
- **List of Resources/Bibliography** (Last page of the project file)

INSTRUCTIONS:

- Listen to podcasts, documentaries, interviews etc. on the given topics.
- Do a thorough research on the topic assigned.
- Prepare a report/essay in about 800-1000 words describing the topic/issue/ giving your own opinion/ suggestions/measures/ viewpoints/its impact on people/your learning experience.
- The project should be neat, legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing and relevance as per the assigned topic.
- Use coloured practical sheets.
- Plagiarism is strictly prohibited.

PHYSICS

I: MEMORISATION WORK:

- Write and Learn NCERT Q/Ans of Chapters:
 - Electric charges and Fields
 - Electrostatic Potential and Capacitance
 - Current Electricity
 - Moving charges and Magnetism
- Do solve PYQ's Numerical (2019-23) of discussed chapters in Physics notebook.

II: ART INTEGRATION PROJECT WORK:

- Make a Brochure on Robotics/A.I. (RollNo's-1-4)

III: WORKSHEETS:

- Do worksheets of Chapters-1,2,3 &4 in Physics notebook.
Note: PDF of worksheets will be shared in class groups.

IV: INVESTIGATORY PROJECTS:

- Transformer (Roll No. 1)
- Electromagnetic Induction(Roll No. 2)
- Photoelectric Effect (Roll No. 3)
- Galvanometer (Roll no. 4)
- Charging and discharging of Capacitor (Roll No. 5)
- Rectifier(Roll no. 6)
- Meter Bridge(Roll No. 7)

V: WORKING MODELS:

| ROLL NO. | MODEL NAME |
|----------|--|
| 5 | EARTHQUAKE SIMULATION |
| 6 | ELECTROMAGNETIC INDUCTION |
| 7 | DAVPPS SMART SCHOOL(SOLAR PANEL)/ SMART SPEED BRAKER |
| | |

CHEMISTRY

I: MEMORISATION WORK:

- Learn the conceptual Question Answers of Chapters-
 - Solutions
 - Electrochemistry
 - Chemical Kinetics
- Write and Learn NCERT Q/Ans of Chapters:
 - Solutions
 - Electrochemistry
 - Chemical Kinetics
- Do solve PYQ's Numericals of discussed chapters in Chemistry notebook.

II: ART INTEGRATION PROJECT WORK:

- Make a Project on comparison of Pharmaceutical Companies in Haryana and Manipur. (Roll No's- 5-7)

III: WORKSHEETS:

PDF of worksheets will be shared in class groups along with the holidays work.

IV: WORKING MODELS:

| ROLL NO. | MODEL NAME |
|----------|--|
| 1 | WORKING DRY CELL MODEL |
| 2 | F BLOCK ELEMENTS WORKING MODEL |
| 3 | WORKING MACHINE TO CHECK PH OF SUBSTANCES |
| 4 | INBUILT FIRE EXTINGUISHER MODEL FOR VEHICLES |
| | |

BIOLOGY

I: LEARNING & WRITING WORK:

- Learn the conceptual Question Answers of Chapters-
 - Sexual Reproduction in Flowering Plants
 - Human Reproduction
 - Reproductive Health
- Write and Learn NCERT Q/Ans of Chapters:
 - Sexual Reproduction in Flowering Plants
 - Human Reproduction
 - Reproductive Health
- Do solve PYQ's Numericals of discussed chapters in Biology notebook.

II: PROJECT WORK:

- Make a 3-D model on Human Male/Female reproductive system(Roll No.-1)
- Make a ppt. on reproductive health for a session to juniors (Roll No.-3)

MATHEMATICS

I: PRACTICE WORK:

Do the attached worksheet of chapter 3, 4 and 5 in mathematics notebook.

II: PROJECT WORK: (Roll No's : 5-8)

Make Mathematics dictionary on mathematical terms, symbols and facts and working model on derivatives.

IV: LAB MANUAL: Do complete activities of Chapter 3, 4, 5 and 6.

PHYSICAL EDUCATION

I: MEMORISATION WORK: Learn and prepare the following chapters –

- Management of sport event
- Children and women in sports
- Yoga

II: ART INTEGRATION:

- Make a collage on National and International players of Haryana and Manipur and also frame the collage.

III: WORKSHEETS:

- Do solve worksheets of discussed chapters
(PDF of worksheets will be shared in groups)

INFORMATION PRACTICE

I: MEMORISATION WORK:

- Libraries in Pandas :- Learn the library Pandas and Matplotlib
- Data structure in Pandas :- Learn the creation of series and dataframe.

II: PROGRAMMING:

Write the program of series and data frame with input and in the file.

III: WORKSHEET:

The Pdf file of worksheet will be share in the whatsapp group.

IV: ART INTEGRATION:

Make a documentary on mobile addiction or cyber crime.

MUSIC

I: MEMORISATION WORK :

Learn the following topics:

- Alankar • Gram • Murchhana • Kan • Meend & Khatka
- Prepare Raga Bageshi Practically With Alap, Tana & Notation • Murki & Murki
- Historical Development of Time Theory of Raga • Sangeet Ratnankar Granth
- Life Sketch and Contribution of Bade Gulam Ali Khan Sahib

II: PRACTICAL WORK:

Complete Practical File.

III: CHARTWORK:

MAKE CHART ON ANY TOPIC : 1. Famous Vocalist - (Hindustani Classical Vocalist or any Other) 2. Instruments used in Indian Classical Music 3. Famous Gharana

FINE ARTS

I: ART INTEGRATION WORK- The raas leela is an important part of Manipur culture , also known as 'Jagoi' . It is one of the major Indian classical Dance form , originating from the state of Manipur. Students will draw on A3 size cartridge sheet showing classical dance form and colour it with any medium.

II: PORTFOLIO PROJECT WORK- Prepare front page of portfolio aesthetically.

III: WORKSHEET WORK- Do in fair notebook.

PDF of painting theory will be shared in class group

CLASS TEACHER: MR. VIKAS BHARDWAJ