



DAV POLICE PUBLIC SCHOOL, PANCHKULA



SUMMER HOLIDAYS HOMEWORK 2023-24 OF CLASS – XII SCIENCE

SUMMER HOLIDAYS

'Let all your worries and stress go away this summer and enjoy every minute of it.'

Dear children,

With summer heat on, it's time for much awaited summer vacation. It is time for you to unwind, relax and find time to do things you enjoy the most. You can utilize the leisure time to enhance your existing skills or learning new ones and develop new and interesting hobbies as well. It is also an excellent opportunity to become friends with books.

You are full of potential and promise to gear up and spread your imagination and use these holidays to further enhance your skills and personality.

The holidays work has been planned to help you to not only revise the concepts already learnt but also to explore and stretch your knowledge.

Here are some tips for summer break.

1. Follow a routine. Avoid sleeping at irregular times.
2. Enjoy summer fruits, nutritious food and drink lots of water.
3. Stay safe indoors.
4. Observe things around the environment.
5. Help your parents with household chores.

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 chapters 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 2022-23 subject wise. The completed work must be submitted on the following dates:

SUBJECT	SUBMISSION DATE
ENGLISH	3.7.2023
MATHS/BIOLOGY	4.7.2023
PHYSICAL EDUCATION/FINE ARTS/MUSIC/IP	5.7.2023
PHYSICS	6.7.2023
CHEMISTRY	7.7.2023

ENGLISH

Task 1. Child Labour and trafficking has been a sensitive issue as raised by Anees Jung in the chapter The Lost Spring-the stories of stolen childhood.

Make a **chart** on the topic Child-Labour bringing out the contrast between the two protagonists of the different stories using a Venn diagram.

Task II. 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 notebook defining and giving examples

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

Task III. Reading Corner

'A reader lives a thousand lives before he dies'. Here are some suggested topics given below-Write about 100-150 words about the same. Consult reference books or internet.

- Linguistic human rights
- Constitutional guarantees for linguistic minorities in India
- The callousness of society and the political class to the sufferings of the poor
- Paradox in the society we live in
- Work-life balance, Negative effects of today's stressful life
- Extinction of wild animals as a result of hunting and killing

(Do in fair notebook)

Art integration Work

Task iv. Prepare a project on the topic Manipur and its prevailing condition students may take help from the news paper. Minorities and majorities their rights and conflicts Also give details of food, culture Life styles, dress, dishes and dances.

Follow the sequence

- Index
- cover-page
- Goals and objectives
- Acknowledgement
- Certificate of Completion
- Report Essay (1000 words)
- Material evidence
- Learning Process
- Academic Accomplishment

Make this project as a record of art integrated work using different materials like bamboo sticks, jute, coconut waste .

ACADEMIC PROJECT/WORKING MODEL:

- Electronic Cut Bridge Model
- DJ Lights
- Touch sensor working model
- Electromagnetic Induction
- Mini Robot
- Earthquake alarm
- Tesla Coil

LEARNING WORK

- Learn and Revise Unit-1, Unit-2 Unit Test-2.
- Practice NCERT Questions and Previous year Questions of Unit-1 & 2 in class notebook.

WORKSHEETS:

- Do worksheets of Unit-1, Unit-2 in your class notebook.

NOTE: Pdf of worksheets will be provided in class group.

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)
- WHEATSTONE BRIDGE (Roll no. 6)
- PHOTOELECTRIC EFFECT (Roll No. 3)
- AC GENERATOR (Roll No. 7)
- METRE BRIDGE (Roll no. 8)
- RECTIFIER (Roll No. 9)

FINE ARTS

Size half imperial

- 6 composition watercolor
- 6 object study with pencil colour, pencil shading and watercolor
- 2 nature study with any medium

CHEMISTRY**ACADEMIC PROJECTS-MODELS:**

- Electromagnet - Roll No.: 1-2
- Homemade battery – Roll No. : 3-4
- Nuclear power plant - Roll No.- 5-6
- Junkbot– Roll No. – 7-8
- Pollution control -Roll No. 9

LEARNING WORK

- Learn and revise chapter-1,2,3
- Learn NCERT Questions and solve Previous year Questions of chapter-1,2,3 in class notebook.

WORKSHEETS:

- Do worksheets of chapter-1,2,3 in your class notebook.

NOTE: Pdf of worksheets will be provided in class group.

BIOLOGY

ACADEMIC PROJECT

- Prepare a 3D Model of Structure of DNA.
- 3D Model of Chromosome.

ART INTEGRATION PROJECT

- Study plant and animal diversity of Manipur and Haryana using various media. Also compare soil and weather conditions.

LEARNING WORK

- Learn and revise chapter-3, Reproductive Health and chapter -4, Principles of Inheritance for Unit Test-2.

WORKSHEETS:

- Do worksheets of chapter-3, chapter-4 in your class notebook.
NOTE: Pdf of worksheets will be provided in class group.

MATHEMATICS

1. Do practice the given chapters: Chapters 3,4,5 and 6
2. Do complete the same topic activities in mathematics Lab. Manual.
3. Do the given worksheet in maths notebook
4. Prepare a chart on application of derivatives Also define its concept by relating it with example to determine the profit and loss in the market using graphs.

NOTE: Pdf of worksheets will be provided in class group.

PYSICAL EDUCATION

CHART WORK

- To make a chart of balanced diet.
- To make a chart of some asana Halasana, paschimottanasana, Dhanurasana, Tadasana, pavanmuktasana, bhujangasana, Vajrasana.

ART INTEGRATED PROJECT:

- Create a project mentioning the names of Players of different sports from Haryana and Manipur who have excelled at National/International level and the awards won by them.

LEARNING WORK:

- Learn and revise Unit 2 Lesson - 2 children and women in sports, and L-3 Yoga as preventive measure for lifestyle disease.

WORKSHEETS:

- Do worksheet 1 and 2 in your class notebook.

INFORMATION PRACTICE

• Make a presentation on topic Computer Network explaining following points Introduction to Computer Networks » Types of Networks » Network Devices » The Internet » Website » Web Page » Web Server » Hosting of a website » Browser with appropriate pictures .

- Practice daily at least two syntax of python. **Topics for python**
 - creation of Series by all methods,
 - accessing Series
 - attributes and methods of series
 - operations on Series
 - creation of Data Frames by all methods
 - Attributes of data frames
 - Operations on Data frame
 - accessing data frames
 - Joining and merging of dataframes. Write them and paste their output also.
- Write a blog explaining the lifestyle, tradition, wildlife of Manipur in comparison to Haryana.

OR

Make a web page using any online platform like canva explaining the lifestyle, tradition, wildlife of Manipur in comparison to Haryana.

MUSIC

1. Make a chart of definitions of Alankar, kan, meend, khatka, murki
2. Make an extensive Assignment on Raag Bhairav with notation of Raga Bhairav bandish with sthaai antra
3. Make A Chart on Taali khaali of Jhap taal and Roopak taal with full Discription And ekgun dogun Chaugun
4. Make an assignment on Time theory of ragas
5. Make A PPT on All four types of musical instruments
6. Make a poster of All types of Musical instruments used in Indian Music
7. Make a PPT on the Musical journey of Bade gulaam ali khan..

HAPPY HOLIDAYS