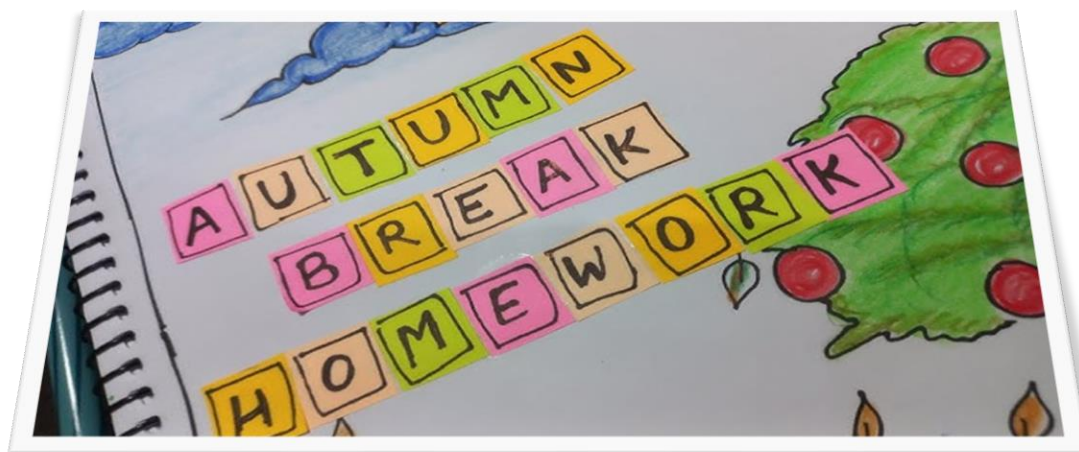# ARMY PUBLIC SCHOOL
FATEHGARH CANTT

AUTUMN BREAK

HOLIDAY HOME WORK

2024-25

ARMY PUBLIC SCHOOL, FATEHGARH

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS – XII SCIENCE

Session - (2024-25)

ENGLISH

- ❖ Design 2 Invitation for parents forAnnual Sports Day at APS FATEHGARH.
- ❖ Write a reply on behalf of chief guest Brig C. S Jain accepting the invitation for Annual Day Celebration 24- 25. Invent necessary details.
- ❖ Write a report on Independence Day celebration at your school in about 150 to 200 words.
- ❖ Write an article on ' Changing Face of Woman all over the world' in about 200 words
- ❖ Do this work on file papers. It will be carry 10 marks

PHYSICS

Complete the NCERT exercise of chapters :-

- ❖ Current electricity
- ❖ Moving Charges & Magnetism
- ❖ Magnetism & matter
- ❖ Electromagnetic Induction

CHEMISTRY

Qus 1. All the numerical of solution chapter

Qus 2 Define valance bond theory with examples

Qus 3 Define crystal field theory

Qus 4 Prepare an investigatory project in chemistry practical exam

MATHEMATICS

	QUESTIONS:
1	Give one example of Homogeneous and Linear Differential Equation each. Hence, find the solution.
2	Explain product of two vectors (scalar and vector) with examples.
	ACTIVITIES:
1	To draw the graph of $sin^{-1}x$, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x).
2	To sketch the graphs of a^x and $log_a x$, a > 0, a ≠ 1 and to examine that they are mirror images of each other.
3	To understand the concepts of decreasing and increasing functions.
4	To understand the concepts of local maxima, local minima and point of inflection.

BIOLOGY

1- Practice or solve five sample papers (previous year's questions paper-CBSE).

2-Students are encouraged to prepare a brief write up or Investigatory Project from selected topic for Biology Practical Examination-2025.

ARTIFICIAL INTELLIGENCE

Explain in 50 – 100 Words Each:
1. Regression
2. Classification
3. Cross Validation
4. Train Test Split Evaluation
5. Hyper Parameters
6. Loss Function
7. MSE and RMSE
8. Design Thinking Framework

COMPUTER SCIENCE

Program 1: Program to search any word in given string/sentence.
Program 2: Program to read and display file content line by line with each word separated by "#"
Program 3 : Program to read the content of file and display the total number of consonants, uppercase, vowels and lower case characters"
Program 4: Program to create binary file to store Rollno and Name, Search any Rollno and display name if Rollno found otherwise "Rollno not found"
Program 5: Program to create binary file to store Rollno,Name and Marks and update marks of entered Rollno
Program 6: Program to read the content of file line by line and write it to another file except for the lines contains „a" letter in it.
Program 7: Program to create CSV file and store empno, name, salary and search any empno and display name, salary and if not found appropriate message.
Program 8: Program to implement Stack in Python using List.

FINEART

(Theory)

1. Revise the chapters

 A) The Rajasthani miniature paintings

 B) The Pahari school of miniature paintings

C) The Mughal school of miniature paintings

D) The Deccani school of miniature paintings

(Practical)

1. Draw 5 landscape

2. Draw 5 Still life

Note:- (Realistic or creative) on A3 sheet and done with any medium of colour.

PHYSICAL EDUCATION

Write down these questions answers in your notebook.

Q. 1. In Asthang yoga, there are_____ elements.

   (a) Two   (b) Eight   (C) Ten   (d) Six

Q. 2. Asthma problem Can be relieved by performing.

(a) Halasana (b)Trikonasana (C)Gomukhasana (d)All of these

Q. 3. In Diabetes, the pancreas in unable to produce

(a) Insulin (b) Gastric juice (C) Bile (d)All of these

 Q. 4. Paralympic Games are meant for ....

(a) Cognitive Disabled person (b)Normal athlete

(C) Vision disabled person (d) Physical impairment person.

Q.5. International Yoga Day in celebrated On. 21 June.

(a) True   (b) false

Q. 6. The normal adult person should have a blood pressure 100 / 140.

(a) True   (b) false

* Write down SAI Khelo India Fitness Test in your physical education project file related to board practical examination.

* Complete revision work of following units.

1. Management of Sporting Events (Unit-1).

2. Children and Women in Sports (Unit-2).

3. Yoga as Preventive measure for Lifestyle Disease (Unit- 3).

4. Physical Education and Sports for CWSN(Unit- 4).

5. Sports and Nutrition (Unit-5).