

ARMY PUBLIC SCHOOL, CHANDIMANDIR



- Encourage regular physical activities to help your child stay fit and energetic.
- Introduce them to interesting storybooks to build imagination and language skills.
- Let your child spend time outside exploring nature and observing the world around them.
- Offer fun materials for drawing, painting, or creating handmade items.
- Motivate your child to write daily entries—it's a great way to express thoughts and practice writing.
- Try this fun DIY—paint and decorate rocks to turn them into cute “pets.”
- Take time to look at the night sky, spot constellations, and talk about space.

ENGLISH

1. **Analytical Paragraph** : Write a paragraph in about 200 words analysing the current India-Pakistan conflict, covering the following points:

- Recent tensions and conflicts between India and Pakistan.
- Causes of the conflict (e.g., terrorism, border disputes)
- Impact on civilians and the economy.
- Role of international diplomacy in resolving the conflict.
- Possible solutions or steps towards peace.

2. Letter to the Editor

Write a letter to the Editor of a National Daily in about 120 words spreading awareness among the masses to act responsibly in these trying and testing times. Suggest ways how citizens can support the forces at the borders by owning up their individual responsibility.

Here are some ways we can support our forces:

- Be aware, be alert, be responsible : Report any suspicious activity and obey the orders of the Government/ Local Administration.
- Foster unity : Promote peace and harmony among diverse communities.
- Stay informed : Engage in constructive discussions on national issues, pay heed to only reliable sources of news.

3. Reading and Analysis

Ch - Two Stories About Flying (Main Reader)

- Analyse the themes, characters, and plot of both stories.
- Identify the author's message.
- Write a brief summary of each story and their key takeaways.

Ch - The Midnight Visitor (Supplementary Reader)

- Understand the plot, characters, and setting of the story
- Analyse the character of Ausable and his role in the story.

4. Revise the Syllabus of PT 1

MATHS

1) Do all solved examples of chapters 1, 2, 3 and 4 from NCERT Mathematics Textbook.

2) Practice chapters -1, 2, 3 and 4 from Mathematics Textbook by R D Sharma. (Students to solve minimum 30 questions from each chapter).

Do all above questions in a separate Note- book.

Topic for Self - Study:

Chapter-12 Surface Areas and Volumes

Activities:

1) Represent geometrically the zeroes of the following Polynomials:

Linear polynomial $y = 2x + 3$

Quadratic polynomial $y = x^2 - 3x - 4$

2) To verify the conditions of consistency of a system of linear equations in two variables by plotting the graphs of following pair of linear equations;

i) $x - 2y = 0$; $3x + 4y - 20 = 0$

ii) $2x + 3y - 9 = 0$; $4x + 6y - 18 = 0$

iii) $x + 2y - 4 = 0$; $2x + 4y - 12 = 0$

3) Draw the graphs of $5x - y = 5$ and $3x - y = 3$ on the same axes. Write the co-ordinates of vertices triangle formed by these lines and Y - axis and also find the area of triangle so formed.

***Note- Students to do all above activities in a thin interleaf file**

SOCIAL SCIENCE

* Prepare a project on a file or in the notebook on the topic: Is war necessary to maintain peace?

Include latest wars happenings- Russia -Ukraine war.

Indo- Pak cross border tensions.

* The impact of the war on Society, Economy and on Polity.

* Disaster and its impact on educational system.

* Impact of the war on the common man.

* Newspaper Articles.

* Disaster Risk Reduction strategies.

2. Read, Think and Act plan

HISTORY

Read Print Media and the Modern World

Geography

L3. Water Resources

Read both the lessons and questions will be provided in the last week of May and these chapters to be done in notebooks.

Revise thoroughly PT1 syllabus.

CIVICS

1. Power Sharing

2. Federalism

ECONOMICS

1. Development

2. Sectors of Indian Economy

GEOGRAPHY

1. Resource & Development

HINDI

1. संचयन के पाठ - सपनों के से दिन तथा स्पर्श के पाठ- ततार्रा वामीरो कथा को पढ़कर पाठ के अंत में दिए गए में दिए गए अभ्यास-प्रश्न करें ।

2. अंडमान निकोबार द्वीप समूह को भारतीय मानचित्र में दर्शा प्रमुख स्थानों के नाम लिख कर व्याकरण की कॉपी में चिपकाएं।

3. अंडमान निकोबार द्वीप समूह के प्राकृतिक संरक्षण में उठाए कदम व सुझाव देते हुए भारत सरकार को ई- मेल लिखें।

4. निम्नलिखित विषय पर स्वरचित लघु कथा लिखें

(क) अरे मित्र! तुमने तो सिद्ध कर दिया कि तुम ही मेरे सच्चे मित्र हो। यह कहते हुए दिलीप ने कैलाश को गले से लगा लिया-- को आगे बढ़ाते हुए लघु कथा लिखें।

(ख) यदि मैं समाचार पत्र होता।

5. विज्ञापन तैयार करें-

(क) नई ऑटोमैटिक पवन गति कार के लिए।

(ख) अपनी मनपसंद देशभक्ति पर आधारित फिल्म विषय पर।

6. इकाई परीक्षा-1 के पाठ्यक्रम की पुनरावृत्ति कीजिए ।

AI

1. What are Neural Networks? Explain the three layers of Neural Network.

2. Differentiate between Clustering and classification.

3. Choose a Problem Statement

- Select a real-world problem that can be solved using AI. Some examples:
- Predicting students' performance
- Analyzing daily weather trends
- Chatbot for FAQs in school
- Identifying plant diseases using images

Follow the AI Project Cycle:

Problem Scoping:

- Define the problem clearly.
- Identify the goal and potential users.
- Mention the benefits of solving this problem.

Data Acquisition:

- Collect relevant data (from online sources like Kaggle, UCI Machine Learning Repository, or create your own).
- Mention the type of data and format (CSV, Excel, etc.).

Data Exploration:

- Analyze the dataset.
- Include visualizations (charts, graphs) if possible.
- Describe patterns or trends found in data.

Modelling:

- (Optional) Use any basic AI tool/platform like Teachable Machine, Google Colab, Scratch with ML extensions, etc.
- Describe what kind of model you'd build (classification, prediction, etc.).

Evaluation:

- Reflect on how well your project solves the problem.

Mention limitations and scope for improvement.

PPT will be shared with students to enhance the information related to the concerned topics.

IT

I. Write and revise given Practice questions. (given below)

1. What are the different categories of style in LibreOffice writer document?
2. Write advantages of using Style over manual formatting, for designing a document. What are the different categories.
3. Write steps to load style(s) from a template.
4. What do you understand by styles in LibreOffice writer document.
5. What is a digital image? How can you create one?
6. Write steps to insert an image from the gallery using Drag and Drop method.
7. How is resizing of image different from cropping it?
8. What are the tools available in drawing toolbar? Describe any five tools.

9. How is linking of an image different from embedding? Give a situation in which you would prefer to link an image.
10. Write steps to change properties for drawing objects.
11. What are the benefits and drawbacks of grouping drawing objects?
12. Describe any two tools from Drawing Object Properties toolbar.
13. Write steps to insert an image in a basic drawing shape.
14. Write factors controlling positioning of an image in a document.
15. Differentiate between Cropping an image and deleting an image.

II. Read, Think, Act and Plan

Unit- 1 Templates, Table of Contents (Subject Specific Skills)

Unit-3 ICT Skills (Employability Skills)

III. PPT will be shared with students to enhance the information related to the concerned topics.

SCIENCE

I. Activity

1. Biology – Sports integrated project

Make a tabular chart on breathing rate during different physical activities. Count the breaths in one minute after doing 10 minutes of following physical activity.

- i. Sitting position
- ii. After Climbing stairs
- iii. After Running 200 meters
- iv. Lifting heavy weight.

2. Learn and write chemical formulae of 5 salts available at home and learn the Valencies.

3. Students to prepare indicator using beetroot and test at least 5 solutions available at home and conclude nature of substance.

NOTE: Students to write above activities in Biology notebook.

II. Write the following practicals in Biology and Chemistry practical files respectively.

Chemistry

Write the following practicals in the Practical file:

- a) Performing and observing reaction and classifying them.
- b) Studying the properties of acids and bases.

Biology

Write the following practicals in the Practical file:

- a) Preparation of temporary mount of a leaf peel.
- b) Carbon dioxide is given out during respiration.

III. Topics for self study:

- a) Ch 2- Acids, Bases and Salts
- b) Ch 5- Life Processes (Excretion in Human Beings)

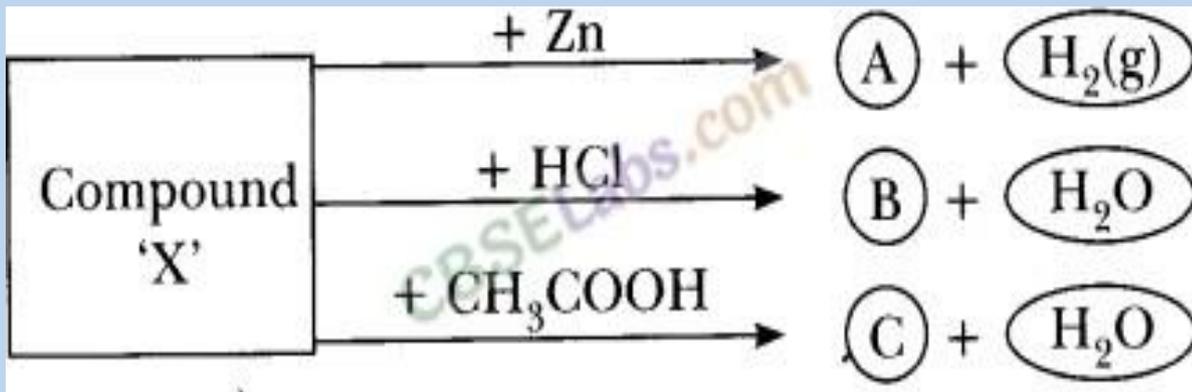
IV. Complete the given assignment in Biology notebook.

BIOLOGY/CHEMISTRY- ASSIGNMENT

1. A student has mixed the solutions of lead(ii) nitrate and potassium iodide.

- (i) What was the colour of the precipitation formed? Can you name the compound precipitated?
- (ii) Write the balanced chemical reaction for this reaction.
- (iii) what type of reaction is it?

2. Identify the compound X on the basis of the reactions given below. Also, write the name and chemical formulae of A, B and C



3. A student burnt a metal and kept in the form of Ribbon. The ribbon burns with a Dazzling flame and a white powdered B is formed which is basic in nature. Identify A and B. Write the balanced chemical equation for the reaction involved.

4. You are provided with two containers made up of (A) copper and (B) aluminium. You are also provided with solutions of (a) dilute HCl (b) dilute HNO_3 (c) $ZnCl_2$ and (d) H_2O In which of the above containers these solutions can be kept?

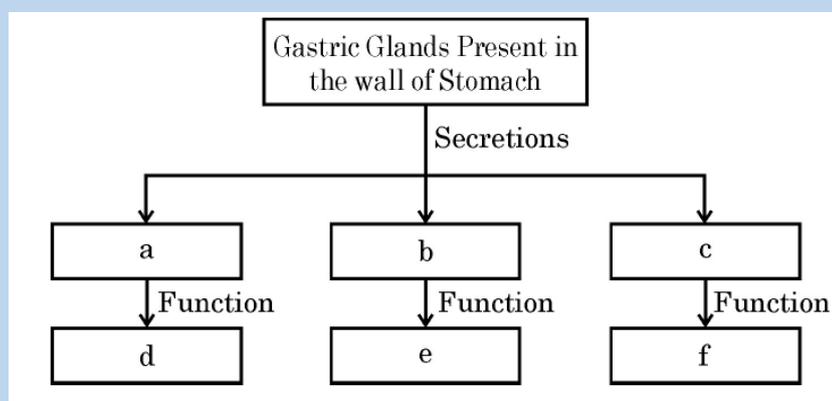
5. On heating blue coloured powder of copper (II) nitrate in boiling tube, copper oxide (black), oxygen gas and a brown gas 'X' is formed.

- (a) Write a balanced chemical equation of the reaction.
- (b) Identify the brown gas 'X' evolved.
- (c) Identify the type of reaction.
- (d) What could be the pH range of aqueous solution of the gas 'X'?

6. We say that movement is a characteristic of living organisms but we always don't see visible movements in plants. Comment.

7. Make mind map of Circulatory system in Human beings.

8. Complete the following flow chart as per the given instructions.



9. Nisha was in a party where people were dancing on the dance floor, a person on the floor suddenly felt severe pain on chest he also fell dizziness some people were mentioning that he might have a heart attack. Nisha immediately called ambulance. Read about passage and answer the following questions

- (i) What are the causes of heart attack?
- (ii) What are the symptoms of heart attack?
- (iii) What values were shown by Nisha?

10. If you compare your rate of breathing by feeling your chest movement with the number of times a fish opens and closes its mouth. Which will be higher and why?

Physics

I Write the following practicals in the Physics Practical file:

- (a) To find the focal length of a concave mirror.
- (b) To trace the path of Light passing through a rectangular glass slab.

II. Topics for self-study:

Ch 10. Human eye and colorful world

- (a) Refraction of light through a glass prism
- (b) Atmospheric refraction and applications of atmospheric refraction

III Complete the given assignment on Ch Light in Physics notebook.

ASSIGNMENT-LIGHT

1. The magnification produced by a spherical mirror is -3. List four information you obtain from this statement about the mirror/ image? Between which two points of a concave mirror should an object be placed to obtain a magnification of -3?

2. A student wants to project the image of a candle flame on a screen 48cm in front of a mirror by keeping the flame at a distance of 12cm from its pole. (i) Suggest the type of mirror he should use (ii) Find the linear magnification of the image produced. (iii) How far is the image from its object? (iv) Draw a ray diagram to show the image formation in this case. (A: (iii) -36cm)

3. When an object is placed at a distance of 60cm from a convex spherical mirror, the magnification produced is $\frac{1}{2}$. Where should the object be placed to get a magnification of $\frac{1}{3}$? (A: -120cm)

4. A 1.2cm long pin is placed perpendicular to the principal axis of a convex mirror of focal length 12 cm, at a distance of 8cm from it. (a) Find the location of the image (b) find the height of the image. (c) Is the image erect or inverted? (A: 4.8cm, 0.72cm, erect)

5. What will happen to a ray of light when it travels from one medium to another having equal refractive indices? Give reason

6. The refractive index of glycerine is 1.46. What is the speed of light in air if its speed in glycerine is 2.05×10^8 m/s?

7. A coin in a glass tumbler filled with water appears to be raised. Why?

8. Practice the ray diagrams for image formation by spherical mirrors.
