



Estd. 1994

**SANT NISCHAL SINGH PUBLIC SCHOOL**

**LADWA (KURUKSHETRA)**



**HOLIDAY HOMEWORK**

**(2025-26)**



**CLASS - X**

**HOLIDAY'S HOMEWORK  
CLASS - X  
SOCIAL-SCIENCE (087)**

**DEAR STUDENTS!**

**WISHING YOU A SEASON OF HAPPINESS, POSITIVITY, AND CHERISHED MEMORIES. IT'S THE TIME TO RECHARGE YOUR SPIRITS, AND COME BACK REFRESHED. THE PURPOSE OF HOLIDAY'S HOMEWORK IS TO MAKE YOU INDEPENDENT, EFFICIENT IN TIME MANAGEMENT AND TO DEVELOP LIFE SKILLS SUCH AS RESEARCHING, CRITICAL THINKING, AND PROBLEM-SOLVING.**

**■ SUBJECT ENRICHMENT ACTIVITY**

**HINTS-**

**PROJECT REPORT ON CONSUMER RIGHTS ( PAGE LIMIT 7-8 )**

**(A) WHO IS A CONSUMER?**

**(B) DUTIES IF A CONSUMER**

**(C) WAYS OF CONSUMER EXPLOITATION**

**(D) FACTORS CAUSING CONSUMER EXPLOITATION**

**(E) CONSUMER PROTECTION ACT, 1986**

**(F) NATIONAL CONSUMER DAY AND INTERNATIONAL CONSUMER DAY**

**(G) CONSUMER RIGHTS**

**(H) CONSUMER FORUM AND MINISTRY OF CONSUMER AFFAIRS.**

**■ ART INTEGRATED PROJECT**

**DESIGN A TEXTILE RESEARCH ON ARTWORK THAT COMBINES TRADITIONAL WEAVING TECHNIQUES FROM HARYANA AND TELANGANA.**

**PAGE LIMIT (3-4)**

**■ MULTIPLE ASSESSMENT**

**MAKE A PPT ON 'ROLE OF WTO IN INTERNATIONAL TRADE'. (5-6 SLIDES)**

**■ LEARNING TASK**

**REVISE THE FOLLOWING CHAPTERS :**

**●ECONOMICS**

**CHAPTER 1- DEVELOPMENT**

**CHAPTER 2- SECTORS OF INDIAN ECONOMY**

**CHAPTER 3- MONEY AND CREDIT**

**●GEOGRAPH**

**CHAPTER 1- RESOURCES AND DEVELOPMENT**

**CHAPTER 2- FOREST RESOURCES AND WILDLIFE**

**CHAPTER 3- WATER RESOURCES**

**CHAPTER 4- AGRICULTURE**

**CHAPTER 7- LIFELINES OF NATIONAL ECONOMY (MAP WORK)**

**●CIVICS**

**CHAPTER 1- POWER SHARING**

**CHAPTER 2- FEDERALISM**

**●HISTORY**

**CHAPTER 1 - THE RISE OF NATIONALISM IN EUROPE.**

**NOTE: SUBMIT YOUR HOLIDAY'S HOME WORK IN A HANDMADE FILE COVER.  
USE A4 RULED SHEETS AND DO EXTENSIVE ART AND CRAFT .**

### **HINDI**

\* आपके विद्यालय में वार्षिकोत्सव के अवसर पर विद्यार्थियों द्वारा हस्त निर्मित उपयोगी सामग्री के विक्रय हेतु एक विज्ञापन तैयार कीजिए। (1 TO 16)

\* \*आप हिंदी छात्र परिषद के सचिव हैं आगामी सांस्कृतिक संध्या के बारे में अनुभागीय दीवार पत्रिका के लिए एक सूचना तैयार कीजिए। (16 TO 35)

\* तेलंगाना और हरियाणा के साहित्य का तुलनात्मक अध्ययन करके एक परियोजना तैयार कीजिए। (ALL)

**\* REVISE ALL CHAPTERS AND POEMS**

**\*DO ALL THE WORK ON A4 SHEETS**

### **ART AND CRAFT**

■DRAW TWO NATURE STUDY

■TWO ANIMALS

■TWO BIRDS

■TWO STILL LIFE (ALL FROM BOOK IN COLORED MEDIUM)

### **Science**

#### **1. Art integrated Project:**

Natural resources: Telangana is rich in natural resources, such as forests, minerals, and water bodies. You could create a scientific illustration while comparing Telangana with Haryana natural resources . Do a work of art that showcases the different ways to save the environment with the objective of Sustainable Development

#### **2. Prepare a working model on any one of the given topics:**

Design a working model based on a concept from your syllabus using eco-friendly or recycled materials.

Examples:

- Volcano Model - Depicting chemical reaction (acid + base)
- Simple Electric Motor - Illustrating electromagnetic principles
- Water Purification System - Linking to life processes and environmental science
- Natural Indicator-based pH Detector - From acid-base concepts
- Periscope or Mirror Maze - Based on reflection and refraction

Note: Submit a 1-page explanation of the principle, materials used, and scientific relevance.

#### **3. Revise all these chapters thoroughly**

Chapter: Chemical Reactions and Equations

Chapter: Acid, Base and Salts

Chapter: Life Processes

Chapter: Light: Reflection and Refraction

Chapter: Our Environment

#### **4. Prepare a given assignment of the following questions.**

### **Assignment 1**

Chapter: Acid, Bases and Salts

1. What is the neutralization reaction? Give two examples.
2. What happens when crystals of washing soda are left open in dry air? What is this change named as? Name two industries based on use of washing soda.
3. What will happen if the solution of sodium hydrogen carbonate is heated? Give the equation of the reaction involved. Or (i) Name the products formed when sodium hydrogen carbonate is heated. (ii) Write the chemical equation for the reaction involved in the above.
4. Why is Plaster of Paris written as  $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ ? How is it possible to have half a water molecule attached to  $\text{CaSO}_4$ ?
5. How is Plaster of Paris chemically different from gypsum? How may they be interconverted? Write one use of Plaster of Paris. Or how is Plaster of Paris obtained? What reaction is involved in the setting of a paste of Plaster of Paris? Or State the chemical difference between Plaster of Paris and gypsum. Describe their either way inter conversions.
6. Name three compounds of calcium which are used in day-to-day life and write one important use of each of them.
7. A chemical compound having smell of chlorine is used to remove yellowness of white clothes in laundries. Name the compound and write the chemical equation involved in its preparation.
8. Explain giving reasons:
  - i) Tartaric acid is a component of baking powder used in making cakes.
  - ii) Gypsum,  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$  is used in the manufacture of cement.
9. State the chemical property in each case on which the following uses of baking soda are based (i) as an antacid. (ii) as a constituent of baking powder.
10. How is Plaster of Paris obtained? What reactions are involved in the setting of Plaster of Paris?
11. How is Plaster of Paris chemically different from gypsum? How may these be inter converted? Write one use of Plaster of Paris.
12. Write chemical name and formula of washing soda. What are the raw materials used for its manufacture by Solvay, process? What happens if, crystals of washing soda are exposed to air.
13. (a) Name the two chief chemicals used for making a soda acid fire extinguisher.  
(b) How does the soda-acid fire extinguisher help to extinguish the fire ?
14. Out of calcium compounds calcium carbonate, quick lime and slaked lime, which one can be used for removing moisture from ammonia gas and why?
15. (a) What is the action of red litmus on (i) dry ammonia gas (ii) solution of ammonia gas in water.  
(b) State the observations you would make on adding ammonium hydroxide to aqueous solution of (i) ferrous sulphate (ii) aluminium chloride.
16. How will you test for the gas which is liberated when hydrochloric acid reacts with an active metal?
17. Name the gas evolved when dilute HCl reacts with sodium hydrogen carbonate. How is it recognized ?
18. How would you distinguish between baking powder and washing soda by heating?
19. Why is acetic acid called a weak acid though there are 4 'H' atoms in the molecule?
20. A metal compound 'X' reacts with dilute hydrochloric acid to produce brisk effervescence. The gas evolved forms a white precipitate when passed through limewater. Write balanced chemical equations involved in the above mention chemical reactions..

## Assignment 2

1. Define power and what is its unit. Define 1 diopter.
2. An incident wave falls off on plane mirror. The incident angle is  $60^\circ$ . what is angle between reflected angle and plane mirror?
3. What is the focal length plane mirror?
4. What is the effect on nature of image if object is moving towards convex mirror?
5. Two plane mirrors are set at right angle and flower is placed between the mirrors. Find the number of images formed.
6. Which of following lenses would prefer to use while reading small letters in dictionary?
7. The refractive index of medium A is  $\frac{3}{2}$  and medium B is  $\frac{4}{3}$ . Find the relative refractive index of B with respect to A.
8. The refractive index of diamond with respect to glass is 1.65. what is the refractive index of diamond.
9. An object is placed at the centre of curvature of concave mirror. Find the distance between its image and pole.
10. A light bulb is placed inside a cube. A small hole is made on one of surface. The hole behaves which type of lens?
11. What is the sign of power of convex lens and concave lens.
12. In which mirror the image formed by mirror is equal in size and virtual and erect?
13. In which medium the incident ray and emergent ray is parallel?
14. A ray incident at an angle of  $60^\circ$  and the refractive index of medium is 1.732. Find the refracted angle.
15. Draw the ray diagram of convex lens, when the object placed at focus, between focus and centre of curvature.
16. Draw the ray diagram of concave mirror, when the object placed at focus and in between focus and pole.
17. A convex lens formed image of double of actual size having focus length 10 cm. find u and v.
18. A concave mirror formed image of double of actual size having focus length 20 c m. find u and v.
19. An object is placed 40 cm in front of convex mirror. The image appears 15 cm behind the mirror. What is focus of mirror?
20. What are defects of eye? How can we correct them? Draw neat and clean diagram of these.
21. Define the principal focus of a concave mirror.
22. Draw ray diagrams for object placed at:
  - a) Beyond C.   b) At C.   c) Between F and P (for a concave mirror)
23. What is the relation between object distance (u), image distance (v), and focal length (f)?
24. A concave mirror forms an image 20 cm away from the mirror when an object is placed at 30 cm. Find the focal length.
25. What is the refractive index? What is its unit?
26. State the laws of reflection and refraction of light.
27. Write two uses each of concave and convex mirrors.
28. What is meant by magnification produced by a mirror?
29. What is the difference between real and virtual images?
30. Why do stars twinkle but planets do not?

### Assignment 3

#### Chapter: Life Processes

1. What are enzymes? Mention their role in digestion.

2. Explain the process of photosynthesis with a balanced chemical equation.
3. How is energy produced through aerobic respiration?
4. What are the differences between arteries and veins?
5. Draw a labelled diagram of the human heart and explain double circulation.
6. Why are villi present in the small intestine but not in the stomach?
7. Differentiate between autotrophic and heterotrophic nutrition.
8. What is the role of diaphragm in breathing?
9. How is excretion carried out in human beings?
10. Describe the transportation of water and minerals in plants.
11. Name the following
  - (a) The process in plants that links light energy with chemical energy
  - (b) Organisms that can prepare their own food
  - (c) The cell organelle where photosynthesis occurs
  - (d) Cells that surround a stomatal pore
  - (e) Organisms that cannot prepare their own food
  - (f) An enzyme secreted from gastric glands in stomach that acts on proteins
12. “All plants give out oxygen during day and carbon dioxide during night” . Do you agree with this statement? Give reason.
13. How do the guard cells regulate opening and closing of stomatal pores?
14. Two green plants are kept separately in oxygen free containers, one in the dark and the other in continuous light. Which one will live longer? Give reasons.
15. If a plant is releasing carbon dioxide and taking in oxygen during the day, does it mean that there is no photosynthesis occurring? Justify your answer.

#### **Assignment 4**

Chapter: Our Environment

1. What is the role of decomposers in an ecosystem?
2. What are the differences between biodegradable and non-biodegradable substances?
3. What is a food chain? Give an example with four trophic levels.
4. What are the consequences of excessive use of fertilizers and pesticides?
5. Why is ozone layer important? How is it getting depleted?
6. What is meant by biomagnification?
7. Why is energy flow in an ecosystem unidirectional?
8. What are the harmful effects of plastic waste on the environment?
9. What steps can be taken to reduce garbage generation in schools?
10. Describe any two effects of pollution on aquatic life.

#### **English Language and Literature**

##### **Q1 : Art Integrated Project**

##### **Description:**

**Students will explore Telangana’s rich folklore and poetry, then create an artistic presentation (poster, comic strip, short skit, or illustrated book) based on the stories or poems they study.**

##### **Steps & Components:**

- 1. Select two folktales or folk poems from Telangana, such as:**

**Burra Katha or Oggu Katha stories**

**Tales of Bala Nagamma, Sarala, or Potaraju**

**2. Rewrite the story in your own words (in English), highlighting moral values or messages.**

**Or.**

**Create a comic strip, storyboard, or poster to visually narrate the tale.**

**1. Cover Page Layout**

**[School Name]**

**Affiliated to CBSE, New Delhi**

**Session: 2025-26**

**PORTFOLIO**

**Subject: English Language & Literature**

**Class: X**

**Title:**

**“My English Learning Journey”**

**Submitted by:**

**Name: \_\_\_\_\_**

**Roll No.: \_\_\_\_\_**

**Section: \_\_\_\_\_**

**Submitted to:**

**Subject Teacher's Name:**

**3. Page : My Goal**

**4. Page : Peer Assessment**

**5 Page : Self Assessment**

**6 Page : Target**

7 Page . My Strength

8 Page ..My Weakness

Tie your Art Integrated pages in the last .

Portfolio file must be neat and clean.

Q2 : Reading Section- Complete 3- 30 pages of Reading Module.

Q3- Do Q 1 ,8 , 10 ( from Practice Exercises Page 229 )Analytical paragraph in your Notebook & Editorial letters( 1-5).

Q4:Solve all extract based exercises of literature Module 7 (chapters done in class ) in your Module only .

Q5- Select One Speaking Topic from your Speaking Module at page no.525 and make video and Send to your Subject teacher.

**Class-X**  
**Subject-Information Technology(402)**

Make a report on given below given topic according to the roll no.

Topic	Roll no.:
1. Computer Health and safety Tips	(1-7)
2. Concept of Health, Safety and Security at Workplace	(8-14)
3. First Aid for Electrical Emergencies	(15-21)
4.Fire Hazards at Workplace and Fire Prevention	(22- 29)
5.Types of Emergencies and General Evacuation Procedure	(30 onwards)

**Practical Work (Practice at Home):**

Write a paragraph on “Healthcare and safety measures at Workplace” .Add a picture related to it from gallery. Do the following modifications:

1. Resize the image according to the page size by setting the width as ‘3.77’ and height as ‘3.99’
2. Add ‘red’ border to the picture.



3. Crop the picture with the scaling parameter of width as '50%' and height as '50%'. Set the Picture according to the text via Anchor/Wrap/Align option.
4. Create own style and mention their own name.
5. Make the changes in the content, and find the changes with "Track Changes" feature.
6. Compare the document with original file via "Compare Document" option.

**Application used:** Digital Documentation

**Software :** LibreOffice

### Subject – Mathematics

- Revise Chapters 1-5, 7, 8 and 9 from textbook and exemplar book in practice register.
- Activities from lab manual :
  - 1) Distance formula
  - 2) Right circular cylinder
  - 3) Right circular cone
  - 4) Finding probability
- Art integrated project :
 

Find out the total population, no. of men, no. of women, no. of children, no of literates in the state of Haryana and Telangana.  
Hence find the mean of each one of them.  
Find out the surface area of both the states.  
Paste the pictures of famous historical places of each state (any two each).  
Record the temperature in both the states for a week of June and hence find the mean, median and mode.
- Write a report on any one of the famous mathematician (200-250 words)

### Physical Education

1. Draw and write about Track.
2. Draw the Athletics Chart and write about it.
2. Draw and write about Field events -
  - i) 1 Throw Event - Shot Put, Discus Throw, Hammer Throw, Javelin Throw
  - ii) 1 Jump Event - Long Jump, High Jump, Triple Jump
4. Draw and write about any one of your favourite games.
5. Draw and write about any 8 Yoga Asans.