

**SWARNPRASTHA PUBLIC SCHOOL,  
SONEPAT**



**SESSION: 2023-24**

**HOLIDAY HOMEWORK**

**CLASS - X**

*"Learn while you explore, makes for a summer you'll adore!"*

## General Instructions

1. Do all your homework as per the instructions.
2. Parents are requested to only guide their children while doing the homework.
3. Originality of the work will be appreciated.
4. Homework will be assessed on the basis of neatness (3 marks), creativity (3 marks) and originality of ideas (4 marks).

## SUBJECT- ENGLISH

Q1. Poster Making (A-4 size sheet): (Roll No 1-10)

Make a poster portraying your thoughts and point of view on:  
“Love for freedom is the natural instinct of every living being.”  
You may read Leslie Norris’s A Tiger in the Zoo for your reference.

Q2. Travel Brochure (Roll no. 11-20)

Research about places to visit in Manipur and prepare a Travel Brochure of any one place describing the location, ways to reach there, weather, best time to visit, hotels, the flora and fauna, food, suggested activities, culture etc. It should be handwritten. There should be 4-5 pages, where you may draw or paste some pictures associated with that place. Draw borders around the pictures if they are pasted. Give details about the same.

There should be interesting and catchy HEADINGS above each detailed paragraph.

Each picture in the brochure should have a CAPTION (i.e. a Photo caption, also known as cutline, a line of text used to explain and elaborate a photograph.)

Q3. Script Writing (Roll no. 21-34)

Based on, Chapter 2: Nelson Mandela (Find the different social issues present in Haryana and Manipur)

Task: Write a script on any SOCIAL ISSUE. IT should be divided into IV scenes and different characters (characters count – 4 or 5). Each scene should be written on different A4 sheet.

Where to do: A4 Sheet.

Parameters: Content, Presentation, Setting of a plot.

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## SUBJECT- HINDI

अभी तक का करवाया गया संपूर्ण पाठ्यक्रम याद करें।

मणिपुर तथा हरियाणा राज्य के प्रमुख मौसमों का संक्षिप्त परिचय देते हुए उनमें आए बदलाव, समय, पहनावा एवं खान-पान तथा प्रमुख कृषि उत्पादों पर साज-सज्जा का विशेष ध्यान देते हुए 400-500 शब्दों में परियोजना कार्य तैयार करें।

<https://bharatdiscovery.org/india/%E0%A4%AE%E0%A4%A3%E0%A4%BF%E0%A4%AA%E0%A5%81%E0%A4%B0>

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## SUBJECT- MATHEMATICS

1. Practice Chapter 1 (Real Numbers), Chapter 2 (Polynomials) in practice notebook. Practice the extra questions given in the class related to chapter- 1, 2, 3 and 4.
2. Do the following lab manual activity in lab manual file:
  - i. To find zero(es) of a quadratic polynomial geometrically.
  - ii. To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
  - iii. To verify that the given sequence is an arithmetic progression by paper cutting and pasting method.
3. Project: Two cricket teams A and B are made for a test match. Team A involves 5 players from Haryana state and 7 players from Manipur state scored 500 runs in total whereas team B involves 7 players from Haryana state and 5 players from Manipur state scored 460 runs in total. Form the linear equations in two variables using given information and represent graphically. Hence find the solution of these equations. Verify your answer by solving the equations using substitution as well as elimination method.

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## SUBJECT- SCIENCE

1. To enhance the overall generation capacity of the state with a view to provide energy security in all villages in addition to addressing the problem of ecological imbalance and environmental degradation, Manipur Renewable Energy Development agency (MANIREDA) promotes generation of Grid- grade Power through New & Renewable Energy Sources like wind, solar, mini hydel, SHP, biomass and other waste.

Create a working or semi-working model showcasing the generation and applications of any one of the renewable energy resource.

The model should be of 24 inches' x 18 inches' dimension's maximum and should be neatly labelled.

OR

Manipur government plans to erect a solid waste management unit for every district with an aim to stress upon material recovery, recycling and waste-to-energy technologies in the policy making pertaining to Municipal Solid Waste.

Create a working or semi-working model showcasing any one method of Solid Waste Management.

The model should be of 24 inches' x 18 inches' dimension's maximum and should be neatly labelled.

2. Write the following experiments in the **science practical file** (except the calculations and result part).

### **Chemistry:**

1. Finding the pH of the following samples by using pH paper/universal indicator:

Dilute Hydrochloric Acid, Dilute NaOH solution, Dilute Ethanoic Acid solution, Lemon juice, Water, Dilute Hydrogen Carbonate solution

2. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: Litmus solution (Blue/Red), Zinc metal, Solid sodium carbonate

3. Performing and observing the following reactions and classifying them into combination, decomposition, displacement, double displacement reaction:

(a) Action of water on quicklime

(b) Action of heat on ferrous sulphate crystals

(c) Iron nails kept in copper sulphate solution

(d) Reaction between sodium sulphate and barium chloride solutions

4. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:  
ZnSO<sub>4</sub> (aq), FeSO<sub>4</sub> (aq), CuSO<sub>4</sub>(aq), Al<sub>2</sub> (SO<sub>4</sub>)<sub>3</sub> (aq)  
Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.
5. Study of the following properties of acetic acid (ethanoic acid): Odour, solubility in water, effect on litmus, reaction with Sodium Hydrogen Carbonate.
6. Study of the comparative cleaning capacity of a sample of soap in soft and hard water.

**Physics:**

1. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.
2. Determination of the equivalent resistance of two resistors when connected in series and parallel.
3. Determination of the focal length of: i) Concave mirror ii) Convex lens, by obtaining the image of a distant object.
4. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
5. Tracing the path of the rays of light through a glass prism.

**Biology:**

1. Preparing a temporary mount of a leaf peel to show stomata.
2. Experimentally show that carbon dioxide is given out during respiration.
3. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.
4. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

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**SUBJECT- SOCIAL SCIENCE**

**The Topic for the project is: (Do any one of the following)**

- a. Consumers Rights'
- b. Sustainable Development
- c. Social Issues

**Guidelines for project**

- Project should be in the PPT form.
- Collect information from various sources like newspapers, photographs, article from magazine, internet, eye witness, accounts etc., Regarding the event and the problems faced by the disaster victims.
- Collect information on immediate response of various government agencies like police, hospitals, district administration etc.
- Discuss the role of authorities, Indian and international agencies (CRY, WHO, UNO) in the rehabilitation process.
- In conclusion highlights the mitigation process to include identification of risk zones, community awareness and individual response.
- A case study of supplement and build up on the project shall be appreciated.
- Criteria for evaluating project work include content accuracy, originality, presentation and creativity.
- The project should be hand written. Print outs will not be accepted.

- All the photographs should be labeled and acknowledged.
- Project should be developed and presented in this order
- Cover page showing project title, schools name, students name, class and section and academic session(year)
- List of contents with page number (approx...12 pages)
- Acknowledgements: Acknowledging institution, offices and libraries visited and people who have helped.
- Project Overview: Purpose, aim, methodology and experience while doing the project.
- Chapters with relevant headings.
- Summary and conclusions based on findings.
- Bibliography should have the title, pages referred, author, publisher, year of publication and if a website, the name of the website with a specific link which have been used.

**NOTE:** Only ecofriendly material to be used

Total marks allotted for the project are 10, which includes theory as well as viva or written test for content assimilation.

### **PROJECT EVALUATION PERFORMA**

The Performa should be attached on the last page of project.

School's Name

Address

Student'sName

Roll. No

Class

Section

Teacher Assessment

1. Content accuracy and originality
2. Presentation and creativity
3. Process of project competition
4. Viva –voce
5. Overall remarks:
6. Teacher signature:

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*"Creativity is seeing what others see and thinking what no one else ever thought."*

- Albert Einstein



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