

**SWARNPRASTHA PUBLIC SCHOOL,  
SONEPAT**



**SESSION: 2023-24**

**HOLIDAY HOMEWORK**

**CLASS - IX**

*"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

Your summer assignment should be creative and colourful, you can use pencil colours (YOU CAN DO IT ON A4 SIZE PAPERS)



### 1. Comic Strips ( Roll No 1-10)

Direction: Imagine you have visited to Manipur, and started interviewing an important personality, who is associated in the world of music, and accordingly prepare a comic strips based on the Unit 1 (MCB)'People'

Example of comic strips

### 2. Roll No (11-20)

Research on the traditional costumes of Manipur, such as the Phanek (women's wraparound skirt) and the Phee (shawl worn by both men and women and then create your own designs for a traditional Manipuri costume using fabric, paint, and other materials.

### 3. Roll No. (21-40)

Explore the rich tradition of Manipuri folktales and create an illustrated storybook of some of the most popular tales.

4. Direction: Collect the English newspapers and read the article of your choice and find out ten reported speeches, passive voice and subject verb agreement sentences. (Paste the newspaper clipping in A4 Size Paper. ( Compulsory for all )

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## SUBJECT- HINDI

- अभी तक का करवाया गया संपूर्ण पाठ्यक्रम याद करें।
- मणिपुर और हरियाणा राज्य कला और संस्कृति की दृष्टि से अत्यंत समृद्ध हैं। यहाँ की लोक कलाएँ प्राचीन सांस्कृतिक विरासत को प्रदर्शित करती हैं। दोनों राज्यों की प्रमुख लोक कलाओं की संक्षिप्त जानकारी देते हुए विवरणिका (Brochure) तैयार कीजिए।
- <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

A) DO THE FOLLOWING ACTIVITIES IN MATHS LAB MANUAL:

1. To obtain a square root spiral of natural numbers using graduated strips. (1.1)
2. To verify the following algebraic identities:
  - (i)  $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ . (2.1)
  - (ii)  $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$  (2.4)
3. To obtain a mirror image of a figure with respect to a given line on a graph paper. (3.1)

B) DO ENRICHMENT EXERCISES OF CHAPTER - 1,2 & 3 GIVEN IN LAB MANUAL.

C) REVISE FOR W.A.R – 01

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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, the 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 resources.

The model should be of 24 inches x 18 inches dimensions maximum and should be neatly labelled.

OR

Manipur Organic Mission Agency (MOMA), is a registered society working under the Department of Horticulture and Soil Conservation, Manipur with the sole aim to promote organic farming and related activities in Manipur state, India. The goal of organic agriculture is to contribute to the enhancement of sustainability. MOMA has the vision to convert the maximum area of the State into Chemical-free Organic zones by 2025.

Create a working or semi-working model showcasing any one aspect of “Organic Farming”.

You may explore the given link <https://momamanipur.com/> to know more about the initiatives and Include the same in your project model.

The model should be of 24 inches x 18 inches dimensions maximum and should be neatly labelled.

OR

Prepare a working model based on applications of Newton’s Laws.

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

### Chemistry:

1. Preparation of:

- (a) a true solution of common salt, sugar and alum
- (b) a suspension of soil, chalk powder and fine sand in water
- (c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of transparency, filtration criterion, stability.

2. Preparation of

- (a) A mixture (b) A compound

using iron filings and sulphur powder and distinguishing between these on the basis of:

- (i) appearance, i.e., homogeneity and heterogeneity (ii) behaviour towards a magnet

(iii) behaviour towards carbon disulphide as a solvent (iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes:

- (a) Iron with copper sulphate solution in water (b) Burning of magnesium ribbon in air
- (c) Zinc with dilute sulphuric acid (d) Heating of copper sulphate crystals
- (e) Sodium sulphate with barium chloride in the form of their solutions in water

4. Determination of the melting point of ice and the boiling point of water.

5. Verification of the law of conservation of mass in a chemical reaction.

### Physics:

1. Verification of the Laws of reflection of sound.

2. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.

3. Establishing the relation between the loss in weight of a solid when fully immersed in

(a) Tap water

(b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.

4. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).

### Biology:

1. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.

2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams.

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## **SUBJECT- SOCIAL SCIENCE**

The Topic for the project is Disaster Management (Do any one of the following)

- a. Earthquake b. Flood
- c. Drought d. Landslide
- e. Cyclone

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, ospitals, 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)

Page 3

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 PROFORMA

The proforma should be attached on the last page of project. School's Name

Address

Student's Name

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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