

# Mukand

**MUKAND LAL PUBLIC SCHOOL, SAROJINI COLONY YNR**

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# HOLIDAYS HOMEWORK

SESSION (2026-27)

Class VIII

★  
*Learn, Explore, Enjoy  
and Grow this Holiday!*



Dear Parents

Greetings

As we welcome the much-awaited summer break, we are delighted to share the Holiday Homework for the Academic Session 2026-27.

Summer vacation offers children a wonderful opportunity to explore, reflect, and learn beyond the boundaries of the classroom. Keeping this spirit in mind, the assignments have been carefully planned to ignite curiosity, inspire creativity, and foster empathy among our learners.

In accordance with the vision of the National Education Policy (NEP) 2020, these activities emphasize experiential, value-based, and project-oriented learning. They are designed to help students relate academic concepts to everyday life experiences. Each task encourages learners to discover their interests, strengthen essential life skills, and develop a broader understanding of the world around them.

With your constant support and encouragement, we are confident that this summer break will become a meaningful journey of learning, growth, and joyful experiences for every child.

Principal



## ENGROSSING ENGLISH

### Roll No 1-10

#### Magazine Creation

Students create a magazine with articles, opinion pieces, and infographics on waste management evolution.

### Roll No 11-20

#### \* Documentary Video

Students research and film a short documentary comparing waste management practices across time.

### Roll No 21-30

#### \* Interview Project

Students interview grandparents about past practices of waste management, parents about current recycling of waste and peers about futuristic ideas of waste management and then compile the transcripts.

### Roll No-31-40

#### \* Speech Writing

Students write and deliver speeches as if they were leaders in different eras addressing waste problems.

## Harmonious Hindi

### (अनुक्रमांक 1से 10)-

1) प्राचीन व आधुनिक कहानी कहने के तरीकों को एक चार्ट पर प्रस्तुत कीजिए। तुलनात्मक अध्ययन के बिंदु ये होने चाहिए यथा- पात्र, कहानी कहने का तरीका, शिक्षा आदि।

### (अनुक्रमांक 11 से 20)

2) एक 'समय यात्रा- डायरी' बनाइए। इसमें विद्यार्थी कल्पना करें कि यदि पंचतंत्र का कोई पात्र (पशु, पक्षी, मानव) आज के जमाने में A.I. जैसे Chat G.P.T. से बात करें, तब दोनों के बीच क्या बातचीत होगी? इसे चित्रों व संवादों के माध्यम से एक चार्ट पर प्रस्तुत कीजिए।

### (अनुक्रमांक 21 से 30)

3) 'भविष्य का शहर'(2030-40) इस विषय पर एक ऐसे शहर की परिकल्पना कीजिए, जहां विभिन्न तकनीकों द्वारा स्वयं ही सूखे व गीले कचरे का वर्गीकरण किया जा सकता है। विभिन्न चित्रों द्वारा इसे एक कोलाज के रूप में प्रस्तुत कीजिए।

(अनुक्रमांक 31 से 43)

4) 'कचरा नहीं- संसाधन है यह' अथवा 'स्वच्छ कल के लिए- आज का अवशिष्ट प्रबंधन' इस प्रकार के अन्य नारों का सुंदरता से प्रस्तुतीकरण कीजिए।

## MAJESTIC MATHEMATICS

- Write the following in Roman numerals:
  - 49
  - 275
- Convert the following Roman numerals into Hindu-Arabic numerals:
  - XLIV
  - DCCL
- Express the following in exponential form:
  - $7 \times 7 \times 7$
  - $a \times a \times b \times b \times b$
- Write the prime factorisation of 360 in exponential form.
- Evaluate:
  - $2^5$
  - $3^4$
  - $5^0$
- Simplify using laws of exponents:
  - $4^3 \times 4^2$
  - $10^7 \div 10^3$
  - $(2^3)^2$
- Express the following in scientific notation:
  - 5900
  - 8,40,000
- Write the following using powers of 10:
  - 47561
  - 5642

9. Fill in the blanks:

(a)  $a^m \times a^n =$  \_\_\_\_\_

(b)  $a^m \div a^n =$  \_\_\_\_\_

(c)  $a^0 =$  \_\_\_\_\_

10. Find the values:

(a)  $12^2$

(b)  $15^2$

(c)  $9^3$

11. Identify whether the following are perfect squares:

(a) 144

(b) 325

(c) 576

12. Find the square roots of:

(a) 64

(b) 196

(c) 625

13. Find the cube roots of:

(a) 343

(b) 512

(c) 1728

14. State whether True or False:

(a) Every perfect square ends with 5.

(b) Every perfect cube has an odd number of factors.

(c)  $2^{-3} = \frac{1}{8}$

15. Complete the pattern:

$1^2 = 1$

$2^2 = 4$

$3^2 = 9$

$4^2 =$  \_\_\_\_\_

$5^2 =$  \_\_\_\_\_

16. Find the smallest perfect square divisible by:  
(a) 9  
(b) 10
17. A square park has an area of  $441, m^2$ . Find the length of one side.
18. A lock has a 4-digit password using digits 0–9. How many passwords are possible?
19. A pond doubles the number of lotus flowers every day. If it is fully covered on the 30th day, on which day was it half covered?
20. Simplify and write in exponential form:

$$\frac{3^5 \times 3^2}{3^4}$$

21. Write the next two perfect squares after 225.
22. Find the number of integers between the squares of 16 and 17.
23. Using prime factorisation, determine whether 1156 is a perfect square.
24. Higher Order Thinking Question:  
A number system has landmark numbers  
1, 5, 25, 125, ...  
(a) What is the base of this system?  
(b) Write the next two landmark numbers.
25. Challenge Question:  
Simplify:

$$(5^{-2}) \times (5^4) \div 5$$

### **Roll. No. 1 to 10**

Number Museum

Title: Journey of Numbers Through Time

What to do:

Make a chart/booklet showing:

Tally marks

Roman numerals

Hindu-Arabic numerals

Mesopotamian number system

Add interesting facts about how numbers developed.

Include examples of writing your birth date in different number systems.

### **Roll. No. 11 to 20**

Power Play Around Us

Title: Powers Hidden in Everyday Life

What to do:

Find 10 real-life examples where powers are used.

Computer memory ( $2^{10}$ ,  $2^{20}$ )

Population growth

Chessboard doubling problem

Scientific notation

Draw pictures and explain each example.

Bonus: Explain why powers make large numbers easier to write.

### **Roll. No. 21 to 30**

Square & Cube Hunt

Title: Math Detective: Squares and Cubes Around Me

What to do:

Take photographs or draw objects:

Square floor tiles

Chessboard

Dice

Rubik's Cube

Water tank, box, etc.

Mention:

Shape

Square number or cube number related to it

Prepare a scrapbook page.

### **Roll. No. 31 to 40 onwards**

My Math Newspaper

Create a 4-page newspaper containing:

Story of Numbers

Power Play facts

Square & Cube puzzles

Crosswords and quizzes

"Mathematician of the Month" section featuring SrinivasaRamanujan or Brahmagupta

## **STIMULATING SCIENCE**

### **Roll no 1 to 5**

Make a model of 3R- Reduce, Reuse ,Recycle

#### **Reduce Section - A house with :**

Solar panels

Water Saving tap

Cloth bags

#### **Reuse Section -**

Best out of Waste Things

#### **Recycle Section -**

A recycling factory and convert waste into useful products .

### **Roll no 6 to 10**

Through a model show how trash can be turned into treasure like -

- Pen stand from cans
- Bottle planters

- Newspaper baskets
- Plastic spoons wall art

**Roll no 11 to 15**

Make a working model of waste to energy both electric and domestic plant . Show how garbage becomes electricity and cooking gas biogas.

**Roll no 16 to 20**

Through Ocean Plastic Cleanup Working Model show both the problem and the solution by creating-

- Polluted oceans
- Plastic waste floating
- Cleanup systems removing plastic
- Ocean clean with marine life

**Roll no 21 to 25**

Make a model of zero waste school campus . Design a school campus with -

- Solar Panels
- Smart boards
- Waste Segregation
- Recycling unit
- Composting Pit
- Garden using compost
- Rain water harvesting tank

**Roll no 26 to 30**

Composting and biogas are key sustainable waste solutions. Show through model how waste can be converted into smart Composting and biogas .

**Roll no 31 to 35**

Make E - Waste Manahement Model , showing how electronic waste (old phones , computers , chargers , batteries is collected , segregated, recycled , reused safely.)

**Roll no 36 onwards**

Create beautiful artistic articles using domestic waste material . You can create Eco - Mandala art , costumes out of waste cloth materials , wall hangings , decorative pieces , footmats etc

## **SIGNIFICANT SOCIAL SCIENCE**

**Roll no (1-5)**

Make a Harappan waste management model to show how the Harappan civilization managed waste using:

- \*covered drains
- \*soak pits
- \*proper sewage flow
- \*designated disposal areas

**Roll no (6-10)**

Make a Medieval time waste management model. Follow clear and well arranged sequence of medieval waste management techniques:

- \*Chamber pots and night soil system
- \*Open drainage
- \*Use of pit and heaps
- \*Disposal into rivers
- \*Animal and natural recycling

**Roll no (10-15)**

Demonstrate through a model how waste was managed during the time of the Britishers or colonial Era by following the well arranged sequence:

- \*Household waste collection
- \*Chamber pots and night soil system
- \*Municipal collection system
- \*Open drains and early sewer systems
- \*Dumping grounds outside cities
- \*Disposal into rivers/water bodies
- \*Recycling and composting

**Roll no (15-20)**

Make a model of smart waste management city. Show how modern cities use technology to collect, separate, recycle and reduce waste efficiently. Parts of model include:

- \*Smart homes with two/ three bins
- \*Smart bins(sensor alerts when bin is full)
- \*Smart collection vehicles
- \*Waste management control centre
- \*Segregation plan into (recyclable, organic, non recyclable)
- \*Composting unit
- \*Recycling plant

**Roll no (20-25)**

Make a model of 'Waste to Wealth'. Show how waste turns useful products:

- \*Plastic - road ,fuel
- \*organic waste- compost, biogas
- \*Old clothes- new fibres

**Roll no (25-30)**

Design a zero waste school model. Include:

- \*Separate bins
- \*Composit pits for food waste
- \*Reuse centre (books, clothes exchange)

**Roll no (30-35)**

Make a model of AI based Smart Waste Segregation system.

**Roll no 36 onwards**

Make hazardous waste management model showing how hazardous waste (chemicals, batteries, medical waste) is generated, collected separately, treated safely, disposed without harming environment. Parts of model include:

- \*Waste generation area (factory, Hospital, house)

- \*Segregation of waste
- \*Safe transport
- \*Treatment plant
- \*Safe disposal area

## ASTONISHING AI

### Roll No- 1 to 20

Build a 3D model of a modern data center. Use painted matchboxes for “server racks” and coloured wires for fiber-optic cables. Include a section for the cooling system and a backup power generator.

### Roll No - 21 onwards

Build a basic 3-page website using HTML and CSS that acts as a “Digital Museum” of the most important inventions in human history.

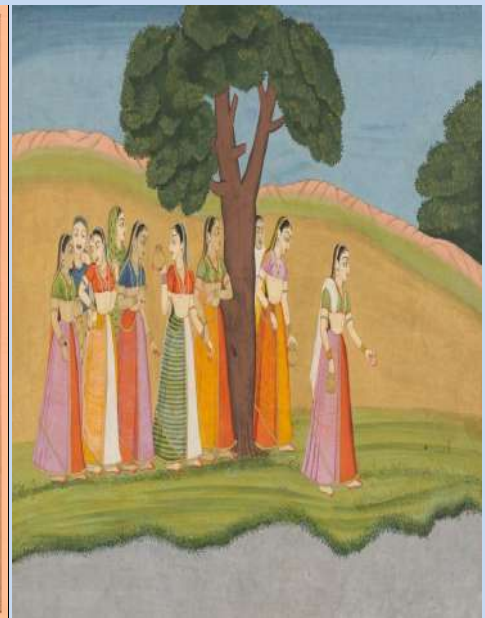
## ARTISTIC ARTS

Let's get crafty these holidays. Your task is to make a beautiful "Mirror with Lippan Art" like the one in the picture.

Also a TRADITIONAL ART of INDIA Pahari Painting (8<sup>th</sup> A,B,C) Tanjore Painting (8<sup>th</sup> D,E,F&G) on A3 sheet with beautiful colour . And bring your masterpiece after holidays.



**Lippan Art Mirror**



**Pahari Paintings**



**Tanjore Paintings**

## **EBSB PROJECT**

Haryana is a pairing state of Manipur under the project Ek Bharat Shreshtha Bharat. Let's get acquainted with our partner State Manipur.

**MUKAND LAL PUBLIC SCHOOL, SAROJINI COLONY, YAMUNANAGAR**

### **EK BHARAT SHRESHTHA BHARAT**

**Project Session 2026-27**

#### **Page1**

Name of Project: \_\_\_\_\_

Name of Student: \_\_\_\_\_ Name of Class Incharge: \_\_\_\_\_

Roll NO. \_\_\_\_\_

Class & Section \_\_\_\_\_

Signature of Class Incharge: \_\_\_\_\_

Make a colourful & beautiful emblem of state of Manipur in a piece of Cloth.

List historical monuments of Manipur with pictures.

#### **Page 2**

Name of the state: Talengana

Capital: \_\_\_\_\_

Chief Minister: \_\_\_\_\_

No. of Districts: \_\_\_\_\_

Largest city -----

Formation day -----

Governor: \_\_\_\_\_

Number of seats in Lok sabha : \_\_\_\_\_

Number of seats in Rajya sabha -----

Area: \_\_\_\_\_

State Language: \_\_\_\_\_

Density of Population \_\_\_\_\_

State Emblem: \_\_\_\_\_

Literacy rate \_\_\_\_\_

Longitude \_\_\_\_\_

Latitude \_\_\_\_\_

Altitude \_\_\_\_\_

Rainfall \_\_\_\_\_

Diamond trading center -----

\*Write at least 20 sentences in Manipur language.

\*Write the Anthem of Manipur. Explain the meaning of the same in English or Hindi.

- Make a colourful & beautiful emblem of state of Manipur on a piece of Cloth using fabric colours or embroidery threads.
- List historical monuments of Manipur with pictures.

# AIL PROJECT

## English:

Make a comic strip showing waste management from past to future.

## Hindi:

पंचतंत्र के विभिन्न पात्रों का एक कोलाज बनाइए अथवा फ्लैश कार्ड के माध्यम से उन पात्रों को प्रस्तुत कीजिए।

## Math:

Collect data how much hazardous waste from industries is generated yearly in India.

On a graph shows the percentage of recyclable hazardous waste in various states.

## Science:

Make a PPT on waste management, it's causes and management.

## S.Sc. :

Do research on hazardous waste and cover the following points:

- What is hazardous waste?
- Characteristics
- Sources
- Impact on environment and health
- Hazardous waste management in India

**Instructions: Please find portfolio attached below in the holidays. Complete the portfolio neatly and creatively. Preserve all holidays homework, worksheets, and project work in this file. Paste relevant photographs, certificates, or artwork wherever required. Submit the completed portfolio after the holidays.**

**Note: This portfolio is a sample template for reference only. Students may design and create their own portfolio using their creativity. The portfolio may be handmade or prepared in typed form.**

# STUDENT PORTFOLIO

## MUKAND LAL PUBLIC SCHOOL

### STUDENT PORTFOLIO TEMPLATE

MODE OF SUBMISSION: HANDWRITTEN/TYPED IN A PROJECT FILE

Session: 2026–27

#### COVER PAGE

Student Name: \_\_\_\_\_

Class & Section: \_\_\_\_\_

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

Teacher's Name: \_\_\_\_\_

Student photograph

#### PAGE 1: WHO AM I?

Three Words That Describe Me

1. ---

2. ---

3. ---

My Superpowers (Tick or write your strengths, you can choose one or more options)

Creative Thinker

Problem Solver

Leader

Team Player

Tech Enthusiast

Artist

Athlete

Public Speaker

Helpful Citizen

Curious Learner

Mention if any other

My Dream Board

When I grow up, I want to become:

---

Because:

---

Draw, paste pictures, or add inspiration here.

---

My Personal Motto

" \_\_\_\_\_ "

**PAGE 2: MY ACHIEVEMENT**

Mention all achievements

My Top 5 Proud Moments

☆ \_\_\_\_\_

☆ \_\_\_\_\_

☆ \_\_\_\_\_

☆ \_\_\_\_\_

☆ \_\_\_\_\_

Showcase Corner

Paste or attach a photo, certificate, artwork, project & class activities

---

**PAGE 3: MY SKILL METER**

Rate Yourself from 1-5 points

Communication

Confidence

Leadership

Creativity

Teamwork

Technology Skills

Time Management

Problem Solving

My Biggest Challenge This Year

---

How did I overcome it?

---

One Skill I Mastered

---

One Skill I Will Develop Next Year

---

**PAGE 4: MY REFLECTION CAPSULE**

➤ The most important lesson I learned:

---

➤ A moment that made me happy:

---

➤ Someone who inspired me:

--

➤ How I helped my school/community:

--

➤ My Goals for Next Year

1. ---

2. ---

3. ---

### A LETTER TO MY FUTURE SELF

Dear Future

--

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Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Teacher Signature: \_\_\_\_\_

