



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

**AFFILIATION NO:- 530294 SCHOOL CODE :- 40279**

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# **HOLIDAYS HOME WORK**

## **CLASS: VIII**

**Session ( 2023-24)**



- ❖ **APPRECIATE NATURE** - GO FOR LONG WALKS IN A PARK OR GARDEN WITH YOUR FAMILY AND FRIENDS. GROW A PLANT AND NURTURE IT.
- ❖ **UNRAVEL THE ARTIST IN YOU** - CREATE A NEW STORY, TRY A NEW RECIPE WITH YOUR MOM, LEARN A NEW SONG, PLAY A NEW INSTRUMENT.
- ❖ **GOOD MANNERS ARE THE KEY**- RESPECT YOUR PARENT, GRANDPARENTS AND ALL ELDERS.
- ❖ **USE THREE MAGICAL WORDS** (SORRY, PLEASE AND THANK YOU) OFTEN. 'A LITTLE MORE COURTESY GOES A LONG WAY.'
- ❖ **STAY FIT, STAY HEALTHY** - PLAY YOUR FAVORITE GAME/ SPORT REGULARLY.
- ❖ DEVELOP IN YOURSELF THE SPIRIT OF SPORTSMANSHIP & SENSE OF HEALTHY COMPETITION.
- ❖ **LEARN ABOUT OUR HERITAGE** – FIND SOME TIME TO VISIT MUSEUM AND MONUMENTS. READ ABOUT THEM.
- ❖ LEARN NEW THINGS RELATED TO YOUR COUNTRY.
- ❖ **SAVE NATURE** – CONTRIBUTE TO SAVE OUR PRECIOUS ENVIRONMENT. MINIMIZE THE WASTAGE OF RESOURCES LIKE WATER AND FUEL

## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Constructing new greener infrastructures, retrofitting or reconfiguring existing infrastructure systems and exploiting the potential of smart technologies can greatly contribute to the reduction of environmental impacts and disaster risks as well as the construction of resilience and the increase of efficiency in the use of natural resources.



## **English:**

**Instructions-** Use Handmade sheet, coloured charts, cardboard, decorative materials in order to make your work beautiful.

### **Roll No. 1-11**

Today Indian Railway network is the fourth largest in the world with 80% of trains got electrified. Research on innovation being used in Indian Railway. Create a newspaper of your own with minimum three pages telling the story of Indian Railways- innovation & infrastructure. Use pictures and colours to make it more attractive.

### **Roll No.12-22**

Research on 17 Sustainable Development goals by United Nation and present in a scrap book or A4 sheets in a creative manner. Use pictures and drawings to make your presentation creative.

### **Roll No.23-33**

Compare and contrast the different types of industries and innovative techniques used to reduce pollution by them .Also do research on rules of government to be followed by industries to make themselves pollution free.

### **Roll No.24-43**

Every year millions of things- specially made of plastic go in waste & pollute environment. Think about some innovative ideas( of your own) that can be used to convert trash into useful treasure and write your ideas on A3 sheet. Use colours and pictures to make your presentation attractive.

## **Hindi:**

### **Roll No. 1-10:**

1. लघु उद्योगों के स्तर पर मिट्टी से बनने वाले खेलौनों का संग्रह करके प्रस्तुत कीजिये ।

**Roll No. 11 – 20:**

2. आधुनिक समय में लुप्त प्राय उद्योगों की सूची बनाइए व उनके लुप्त होने के कारणों को एल्बम के माध्यम से सचित्र प्रस्तुत कीजिए।

**Roll No. 21- 30 :**

3. विभिन्न उद्योगों यथा पशमीना वस्त्र, मूर्ति, अचार पापड़ आदि का निर्माण आदि उद्योगों की प्राचीन एवं वर्तमान स्थिति को सचित्र एल्बम के रूप में प्रस्तुत कीजिए।

**Roll No. 31- 40:**

4. लघु उद्योगों की समाप्ति से उत्पन्न व्यथा व दुख को कविता अथवा अनुच्छेद लेखन के रूप में प्रस्तुत कीजिए।

**Roll No. 41-45:**

5. कागज के लिफाफे, दीप, खिलौना, अगरबत्ती निर्माण जैसे लघु उद्योगों के प्रचार प्रसार हेतु नवीन दृष्टिकोण विकसित करने के उद्देश्य से इन वस्तुओं का संग्रह करके इनकी निर्माण प्रक्रिया को यथार्थ एवं कल्पना के आधार पर अपने शब्दों में प्रस्तुत कीजिए। (41-45)

**Mathematics Worksheet**

1) Ankit has a parallelogram whose perimeter is 36 cm and the length of its shorter side is 8cm. He needs to find the length of the longer side of a parallelogram. His friend Sanjay helped him to find it as follows:

Let the longer side be x cm.

Perimeter of parallelogram =  $2 \times (\text{Sum of pair of adjacent sides})$

$$2(8+x) = 36$$

$$16 + x = 36$$

$$x = 36 - 16$$

$$x = 20\text{cm}$$

Find the error Sanjay has made and rectify it.

2) Simplify  $\frac{3}{4} \div \frac{5}{8} \times \frac{3}{7} + \frac{2}{9} - \frac{1}{3}$

3) Subtract the sum of  $\frac{5}{9}$  and  $\frac{4}{11}$  from the sum of  $\frac{7}{11}$  and  $\frac{5}{9}$ .

4)What rational number should be subtracted from  $-1\frac{1}{2}$  to get -9.

5)The diagonals of a Rhombus are 5cm and 12cm long.If the diagonals bisect each other at right angles.What is the length of each side of the Rhombus.

6)Multiply  $-\frac{9}{16}$  by the multiplicative inverse of  $\frac{15}{36}$ .

7)Solve and check your answers

$$\frac{m+3}{8} + \frac{3m-1}{14} = \frac{2m-3}{7} + \frac{3m+1}{16}$$

8)Coding- decoding

If A stands for 1, B stands for 2, C stands for 3 and so on.What Will you get on adding the rational numbers represented by C/G and D/C?

9)Solve the following and verify the solution

$$7x-(4x-3)=2x-5$$

10) $9x+5= 3(x-2)-1$  Solve and check your answer

11)Puzzle

Two bungalows on the same side of the road have bungalow numbers as consecutive even numbers.If the sum of the two Bungalow number is 1446,What are the numbers of the two Bungalows.

12)Represent  $\frac{5}{2}$ ,  $\frac{3}{4}$  and  $-\frac{4}{3}$  on number line.

13)In a factory  $\frac{3}{8}$  workers are females.If there are 600 workers in all,then find the number of male workers.

14)The angles of a Quadrilateral are in ratio 1:1:2:5.Find each Angle of Quadrilateral.

15)The two unequal diagonals of a parallelogram bisect each other at right angles.What special name is given to this parallelogram?Write the Properties of this parallelogram.

16)The adjacent sides of a parallelogram are not equal. Is it a rhombus? Give reason.

17)The diagonals of a rectangle PQRS meet at O.If angle ROQ= $50^\circ$  and angleOQR= $70^\circ$ , then find the measure of angle PSO.

18)Write True Or False

i)If non parallel sides of a trapezium are equal ,it is known as an isosceles triangle.

19) The following table shows the monthly expenditure and savings of a family.

Category	Food	Clothes	Houserent	Education	Transport	Savings	Others
10000	5000	10000	10000	2500	5000	10000	7500

Construct a pie chart to represent the data.

20) From a well shuffled Deck of 52 cards one card is drawn at random. What is the probability that the card drawn is

- a) a red card   b) A number card   c) a number card not greater than 5?

### **AIL Project:**

- Prepare a colourful menu card for your restaurant and include food items grown in North region . Make a separate menu card for summer and winter. Include summer and winter props under the following headings
  - Type of Chapatti/ Vegetables/ Pulses/ Fruits/ Salads/ Drinks/ Desserts
- Talk to 5 farmers and collect the data about the production of any two Rabi and Kharif crops (tons/hectare) in their fields per year . Write this data in tabular form . What is the selling price of these crops and calculate their profit also. Now make a double bar graph for the production of wheat and rice (tons/hectare) in these farmer's fields.
- Write an article suggesting ways to prevent wastage of food .
- संतुलित आहार की चित्र सहित जानकारी प्रस्तुत कीजिए ।

### **Roll No. 1-5:**

#### **Make Smart and Sustainable City Model**

- Wastewater treatment plan
- Road network with LED streetlights (Eco-friendly material to build roads)
- Biodegradable building material (bamboo, cork, coffee husk, mycelium, algae, cob)
- Solar panels and windmills
- Make a chart for the same

### **Roll No. 6 – 10:**

#### **Make a model of Smart-Eco Village**

- Modern organic farms
- Solar power and wind energy Irrigation system
- Ice coolers
- Modern Agricultural tools
- Drip Irrigation system to save water
- Make a chart for the same

Roll No 11-15:

Make a model of Eco-friendly Green home

- Made of biodegradable building materials
  - ✓ Bamboo
  - ✓ Cork
  - ✓ Coffee husk
  - ✓ Mycelium (strong when dried)
  - ✓ Algae (can be used as a source of energy)
  - ✓ Cob (mixture of sandy soil, clay and straws)
  - ✓ Waste plastic to make bricks
- Terrace garden (Green roofs and walls)
- Passive Solar designs (To capture natural Sun light and heat to keep the home warm in winter)
- Rainwater harvesting (Water conservation)
- Renewable energy sources (Solar Panels, Wind Turbines)
- Make a chart for the same

Roll No 16-20:

- Make a model of climate-resilient green bus stop.
- Make a chart for the same

Roll No 21-25:

- Make a beautiful house model using bamboo sticks for water logging area.
- Make a chart for the same

Roll No 26-30:

Make a model of smart school.

- CCTV Security
- GPS tracker
- Wifi
- Smart Classroom
- Digital entry
- Make a chart for the same

Roll No 31-35:

Make a Model of Eco friendly and Smart Industry

- Renewable energy system
- Green building design
- Waste management and recycling (Bio Plants, smart dustbins)



- Vertical farm
- Sensors to warn an accident which can prevent harmful effects
- Make a chart for the same

Roll No 36-40:

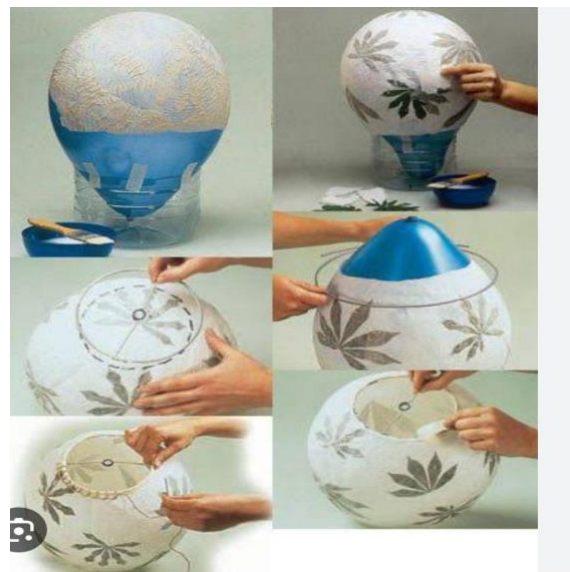
### Research Work

- Make research in the field of industries that how many industries in india are following the prescribed norms and principles for a pollution free and safe environment. Also write down in your report on the guidelines to be followed.

### Art & Craft:

**"Every day is good day to craft"**

**Make some beautiful lamp shades, vase ,bowl using paper macchy.**





## Compulsory for all Students

- Do the worksheet pages of all the subjects for the syllabus done in class till now.

### EBSB PROJECT

Dear Students

To celebrate the unity in diversity of our nation EK BHARAT SHRESHTHA BHARAT (EBSB) program is launched by CBSE. Its aim is to foster National Integration through linguistic literacy, cultural, sports, tourism and other forms of people to people exchanges. All the states are paired in 16 groups. Pairing state of **Haryana** is **Manipur**.

So your **EBSB** Project work is based on the same. You all will make and maintain a **State project Notebook** as per following instructions:

➤ Title Page

MUKAND LAL PUBLIC SCHOOL, SAROJINI COLONY, YAMUNANAGAR

‘EK BHARAT SHRESHTHA BHARAT’

Project

Session 2023-24

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

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

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

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

Ms. \_\_\_\_\_

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

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

➤ 1st Page

- Make a colourful & beautiful map of state Manipur.

➤ 2<sup>nd</sup> Page

Name of the state : Manipur

Symbols of Manipur

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

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

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

Mammal : \_\_\_\_\_

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

Bird : \_\_\_\_\_

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

Flower : \_\_\_\_\_

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

Fruit : \_\_\_\_\_

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

Tree : \_\_\_\_\_

Sport : \_\_\_\_\_

➤ **3rd Page :**

- Learn and write 5-10 alphabets of Manipuri. Also learn and write atleast 20 words in Manipuri
- Write the Anthem of Manipur
- Explain the meaning of the same in English or Hindi.
- Draw state emblem of Manipur.
- Make a poster of Manipur cuisine

