

**THE SD VIDYA SCHOOL NOIDA**

**HOLIDAY HOMEWORK**



**Class- IV**

**Session-2024-2025**

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

***Dear Parent,***

**We wish you and your child a very happy summer holidays. It's time to enjoy and create a bond with family, friends and relatives. To utilize this time in the most constructive way we have prepared Holiday Homework for the students on the principle of 'learning by doing' for his /her holistic development.**

**Kindly ensure that the holiday home work is completed by the students under the guidance of the parents.**

**KEEP IN MIND TO:**

- Pray to the Almighty daily and thank Him for the blissful life that you enjoy.
- Give prime importance to your health.
- Set and maintain a routine at home. Be a good time manager.
- Practice positive thinking and be grateful for what we have.
- Relax, listen to music, or read books.
- Be a helping hand to your parents and learn the skill of shared responsibility.

## **TOPIC: "POWERING THE FUTURE: A GREEN ENERGY ADVENTURE"**

### **INTRODUCTION**

"Powering the Future: A Green Energy Adventure" invites you to embark on an exciting journey into the world of renewable energy. As we explore the significance of green energy in shaping our future, this holiday homework aims to spark curiosity and foster an understanding of sustainable practices. Through hands-on activities and interdisciplinary projects, students will uncover the potential of renewable energy sources while gaining insights into their impact on the environment and society.

- **SCIENCE:** Model Representation: - Prepare a model along with the fact file on any one of the Renewable sources of Energy.

#### **Topics to be covered**

- a. Solar Energy
- b. Wind Energy
- c. Bio-Gas
- d. Hydro Power
- e. Geothermal

#### **(EXAMPLE: Wind Energy Model:**

Materials Needed: Small fan, wires, LED bulb, base.

Instructions: Construct a model demonstrating wind energy conversion. Place a small fan on the base and connect it to an LED bulb using wires. When the fan is turned on, it should generate electricity to light up the bulb.

➤ **SOCIAL SCIENCE:**

- ✓ **Green Energy in India: A State-wise Overview**

**Locate five states on the map of India and paste it in the scrapbook to learn more about their contributions to green energy in India!**

In India, various states harness renewable energy sources to power their communities and contribute to a sustainable future. Let's explore five states leading the way in green energy adoption:

- **Gujarat**

Type of Green Energy: Solar Power

Description: Gujarat is one of the leading states in India for solar energy production. With vast expanses of desert terrain, Gujarat has numerous solar parks and installations, making it a hub for solar power generation.

Fun Fact: The Charanka Solar Park in Gujarat is one of the largest solar parks in Asia!

- **Tamil Nadu**

Type of Green Energy: Wind Power

Description: Tamil Nadu is known for its strong and consistent winds, making it ideal for wind energy production. The state has numerous wind farms along its coastline and hilly regions.

Fun Fact: Tamil Nadu accounts for a significant portion of India's total wind energy capacity.

- **Maharashtra**

Type of Green Energy: Biomass Energy

Description: Maharashtra utilizes biomass energy from agricultural and organic waste. The state has several biomass power plants that convert waste into energy, contributing to both waste management and energy production.

Fun Fact: Maharashtra is one of the largest producers of sugarcane, a key feedstock for biomass energy production.

### **Rajasthan**

Type of Green Energy: Wind and Solar Power

Description: Rajasthan is known for its vast desert landscapes, making it suitable for both wind and solar energy projects. The state has several wind farms and solar parks, harnessing its abundant renewable energy resources.

Fun Fact: Rajasthan is home to the Bhadla Solar Park, one of the largest solar parks in India.

- **Karnataka**

Type of Green Energy: Hydroelectric Power

Description: Karnataka utilizes its rivers and water resources for hydroelectric power generation. The state has several hydropower projects, including dams and reservoirs, supplying clean and renewable electricity.

Fun Fact: The Sharavathi Hydel Power Project in Karnataka is one of the oldest hydropower projects in India.

✓ **Research and gather information about the main rivers of India and the significant dams constructed on them.**

Create a detailed report or presentation highlighting the key features of each river and dam, including their importance, geographical location, and impact on the surrounding areas.

Include relevant pictures of the rivers, dams, and surrounding landscapes to enhance understanding and visual appeal.

**(NOTE:** Organize the information neatly and creatively in a scrapbook or presentation format.

Prepare a short oral presentation to share your findings with the class.

➤ **HINDI:**

हरित ऊर्जा के बारे में कविता और अनुच्छेद लेखन

✓ **कार्य: कविता लेखन**

हरित ऊर्जा के बारे में एक कविता लिखें। पर्यावरण संरक्षण और नवीकरणीय ऊर्जा के महत्व को दर्शाएँ। कविता कम से कम 8 पंक्तियों की होनी चाहिए। अपने स्कैपबुक में हरित ऊर्जा से संबंधित प्रतिकृतियों को शामिल करें।

✓ **कार्य: अनुच्छेद लेखन**

"हरे ऊर्जा का महत्व" विषय पर एक अनुच्छेद लिखें। विभिन्न प्रकार की हरित ऊर्जा और उनके लाभों पर चर्चा करें। अनुच्छेद कम से कम एक पृष्ठ का होना चाहिए। अपने स्कैपबुक में विभिन्न प्रकार की हरित ऊर्जा को दर्शाती तस्वीरें शामिल करें।

✓ एक अलग कॉपी बनाकर 15 सुलेख कीजिए

➤ **MATHS:**

Calculate the amount of spend on electricity bill of the year:

- a. Find the cost of 1 unit in your home used
- b. Find the Total number of units used in one month (from Jan to Dec.)
- c. For Calculate the amount spend in one year.
- d. Write the Total amount in Indian and International System of Numbers.

➤ **ENGLISH:**

- a. Write a short story about the future World where the renewable energy is a primary source of power.
- b. Show and tell - Record a short video using a prop on any one of the three topics
  - Use of Renewable energy
  - Benefits of Renewable energy
  - where you see your future if you use renewable sources of energy.
- c. Review your story book, 'The Christmas Carol' And show your understanding through the book back exercise.

## HOLIDAY HOMEWORK WORKSHEET

### SUBJECT - MATHEMATICS

#### I. Fill in the blanks

1. The number from which another number is to be subtracted is called \_\_\_\_\_
2. The number which is to be subtracted is called the \_\_\_\_\_
3. The result which we get after subtraction is called \_\_\_\_\_
4.  $10000 - 1 =$  \_\_\_\_\_
5.  $98912 - 0 =$  \_\_\_\_\_
6. Largest 5-digit number + \_\_\_\_\_ = smallest 6-digit number.
7. In subtraction problem, the smaller number which is to be subtracted from is \_\_\_\_\_.
8.  $85106 - 85106 =$  \_\_\_\_\_
9.  $100000 -$  \_\_\_\_\_  $= 99999$
10. When the subtrahend and minuend are the same, the difference is \_\_\_\_\_
11. 1000 less than 9000 = \_\_\_\_\_
12. \_\_\_\_\_  $- 0 = 606061$
13. If \_\_\_\_\_ is subtracted from a number, the difference is the number itself.
14. One subtracted from a number gives the \_\_\_\_\_ of the number as the difference.

#### 2. Round the following numbers to the nearest 10:

- |           |            |
|-----------|------------|
| (i) 76    | (ii) 98    |
| (iii) 31  | (iv) 42    |
| (v) 175   | (vi) 447   |
| (vii) 957 | (viii) 533 |

3. Round the following numbers to the nearest 100:

(i) 131

(ii) 748

(iii) 1135

(iv) 7086

(v) 8956

(vi) 12375

(vii) 56017

(viii) 40146

4. Round the following numbers to the nearest thousand:

(i) 1246

(ii) 1578

(iii) 6390

(iv) 9072

(v) 14335

(vi) 31451

(vii) 67218

(viii) 973

5. Write the expanded form of the following numbers:

(i) 1234

(ii) 6587

(iii) 90273

(iv) 29012

(v) 5008

(vi) 49300

(vii) 900015

(viii) 504148

6. See the expanded forms of the numbers and write the standard form:

(i)  $90000 + 8000 + 700 + 60 + 5$

(ii)  $2000 + 300 + 80 + 7$

(iii)  $40000 + 3000 + 200 + 50 + 9$

(iv)  $20000 + 7000 + 10 + 2$

(v)  $700000 + 70 + 8$

(vi)  $30000 + 7000 + 60 + 8$

7. Here are some numbers: 1130, 1140, 1150, 1160, 1170, 1180. Every onward number is 10 more than the previous one.

On the basis of the above pattern, write the next five numbers starting from:

(i) 1540, ....., ....., ....., ....., .....

(ii) 5855, ....., ....., ....., ....., .....

(iii) 40343, ....., ....., ....., ....., .....

(iv) 20125, ....., ....., ....., ....., .....

8. Arrange in columns and add:

(i) 292342, 1454651 and 4681509

(ii) 40236754, 32133046 and 29517354

9. Arrange in column and find the difference of the following:

(i) 689318874 and 897545768

(ii) 80541658 and 65872549

10. Word problems:

(i) A soap factory produced 26,92,654 soaps in one year. In the next year it produced 8,67,205 more. How many more soaps did the factory produced in the second year?

(ii) In an election 2,38,75,501 votes were polled. There were three candidates in the election. Two of them got 98,23,823 and 15,75,923 votes respectively. How many votes were polled in favour of the third candidate?

(iii) In one year Mr. Daniel earned Rs.257088, his wife earned Rs.123672 and their son earned Rs. 96750. How much money did Mr Daniel's family earn in one year?

(iv) A large poultry farm produced 6452148, 7026075 and 8121236 eggs in three successive years. Find the total number of eggs produced in three years.

(v) Subtract the greatest 8-digit number from the smallest 9-digit number.

(vi) In a cold storage, there were 86,53,230 kg potatoes. If 3,64,228 kg potatoes are sold off, then how many kg of potatoes are left in the godown?

**NOTE- KINDLY DO ALL THE QUESTIONS IN MATHS PRACTICE REGISTER.**