Solar Energy – Today's resource for a brighter tomorrow!

# SHINE WITH SOLAR

## SCIENCE

### A. "Let's Catch the Sun!" — A Simple Solar Oven

**Objective:**

To show how we can use the Sun's energy (solar energy) to heat or cook food.

**Materials Needed:**

- **1 empty pizza box or small cardboard box with lid**

- **Aluminum foil**

- **Clear plastic wrap (cling film)**

- **Black construction paper**

- **Tape or glue**

- **Scissors or cutter (with adult help)**

- **A stick or straw (to hold the lid open)**

- **Some marshmallows, chocolate, or a small slice of bread and cheese**

**Instructions:**

1. **Cut a flap in the lid of the pizza box: Leave about 1 inch from the edges and cut three sides of a square. Fold it up to make a flap.**

2. **Cover the bottom side of the flap with aluminum foil. This will reflect sunlight into the box.**

3. **Glue black paper on the bottom inside of the box. Black color absorbs heat well.**

4. **Cover the hole (where the flap was cut) with plastic wrap—tape it tightly from the inside. This acts like a window to trap heat inside.**

5. **Close the box, place your marshmallows or chocolate on a small plate inside the box.**

6. **Tilt the foil flap so it reflects sunlight into the box. Use a stick or straw to hold it up.**
7. **Place the solar oven outside in direct sunlight for 30–60 minutes.**

**What Happens?**

**The Sun's rays reflect off the foil, pass through the plastic wrap, and get trapped inside the box. The black paper helps absorb the heat. It becomes warm enough to melt chocolate or marshmallows!**

**Conclusion:**

This shows how we can use solar energy to heat things. It's clean, free, and good for the planet!

**NOTE:- Write the above activity and your observation in your scrap file. Bring your solar oven to school for a presentation.**

 **B. Project-    Make your Flower herbarium**
       Go for a nature walk and collect five different flowers that have fallen down from the plants. Dry and press them in a newspaper for 10 days. Paste them in A4 size sheets with cellotape. Also write the names of collected  flowers.



C.Revise all the written assignments done in your EVS notebook.

# English

*Activity 1-* Design a colourful poster with this catchy slogan:
" Catch the Rays,Brighten Your Days- Go Solar Today!"
( Use yellow and orange to make a glowing sun, and draw a happy home with solar panels on the roof.) For example:

*Activity 2-* " Reading is to mind what exercise is to body and prayer is to soul".We learn various aspects of life by reading and it makes us a better person. Read two stories( The Sparrow and the Elephant, The Mongoose and the Farmer's wife) from Tales From Panchatantra and describe  your one favourite character with its picture.

*Activity 3-* Find at least ten pairs of homophones and use them in sentences to show the difference between them. (Examples are given below)
( ate/eight, fair/ fare,here /hair)

# Social Science

**1)Collect and paste pictures of at least four gadgets that work using solar energy. Write one sentence about how each gadget is used.**

**2)Write your name using Braille script by using bindis, buttons, or any embossed material to form the dots. Then, represent each letter of your name using hand signs from sign language. Neatly colour and lable each letter for better presentation.**

**3)Make a poster on Van Mahotsav.**

**HINDI**

1 )भारत में 6 ऋतुऐं है जिनके अनुसार मौसम बदलते हैं| प्रत्येक ऋतु का चित्र बनाकर उसकी एक-एक विशेषता लिखिए |

2.) नीचे दी गई वर्ग पहेली में से भारत के राज्यों के नाम चुनकर लिखिए |
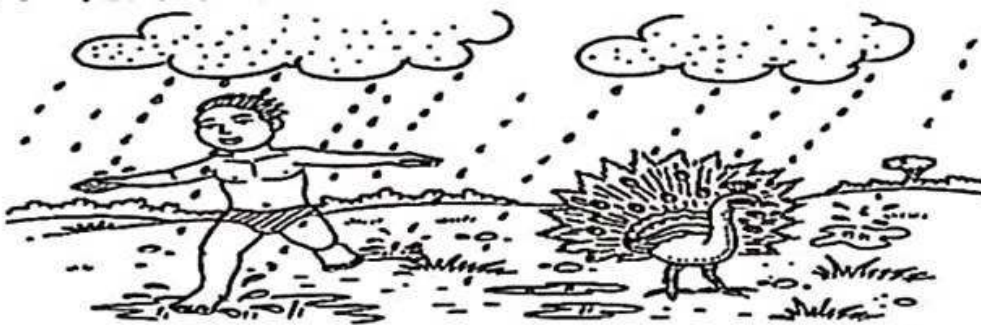


भारत के 28 राज्यों के नाम खोजिये

3. सौर ऊर्जा

दिए गए उदाहरण को देखकर पर्यावरण बचाने में सौर ऊर्जा के महत्व को दर्शाते हुए एक सुंदर पोस्टर का निर्माण स्लोगन सहित कीजिए|

4. चित्र देखकर निम्न दिए गए शब्दों में से उचित शब्दों का चयन कर, दी गई कविता को पूरा कीजिए|

बादल,    मोर,    वर्षा,    आए,    ठुमक कर,        नाचे,            लाए,
ठुमक,



उमड़-उमड़ कर _____ _____
रिमझिम रिमझिम _____ _____
ठुमक-ठुमक कर _____ _____
हम भी _____ _____ _____

**MATHEMATICS**

- Learn tables from 2 to 15 and write them twice a week in a separate notebook

## Activity - Creating a Solar Energy Diary



- Record daily activities that use solar energy.
- Each day, note down activities that involve sunlight, such as drying clothes, using a solar calculator, or playing outside.
- Count how many solar-related activities were done at the end of the week

## Project - Create a board game based on any mathematical concept using eco-friendly materials.

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### Let's Recapitulate!

Q1. Fill in the blanks.

a. The expanded form of 672340 is _____.

a. When we add 0 to any number, the sum is _____

a. The smaller number in subtraction is called ____

a. 3,00,000 + 60,000 + 3000 + 200 + 40 + 4 = ……..

a. 20,000 + 12,000 = _____

a. 10,389 - 0 = _____

a. 49,580 - _____ = 7,580

a. _____ - 0 = 5000

a. 0 - _____ = 0

Q2. State true or false.

a. The smallest 5-digit number is 10001.

b. In 45 ÷ 9, the quotient is 5.

c. 74560 + 23452 = 23452 + 0 _____

c. If 1 is divided by any number, then the quotient is always 1._____

Q3. Write in columns and add.

a. 901500 + 354243
b. 90400 + 6240

Q4. Subtract the following and check the answer :

a. 64,826 - 39,045
b. 9,35,275 - 7,83,550

Q5. Find the difference between the largest five-digit number and the smallest four-digit number.

Q6. What is 650 more than the successor of 999?

Q7.How much money should be subtracted from ₹45,690 to get ₹38245

Q8. Form the greatest and smallest 5-digit number using the following digits.

a. 3 , 4, 5 , 0 ,2
b. 2 , 5, 9, 1 ,0
c. 5 , 7 ,8 , 2 , 6
d. 8 , 7 , 0 , 4 , 1

| Greatest number | Smallest number |
|---|---|
| a) ____ | a) ____ |
| b) ____ | b) ____ |
| c) ____ | c) ____ |
| d) ____ | d) ____ |

**HAVE A GREAT VACATION!!!**