

**THE SD VIDYA SCHOOLNOIDA**

**HOLIDAY HOMEWORK**



**Class- V**

**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.

The theme of our Vacation Assignment is **THE EARTH AND BEYOND**

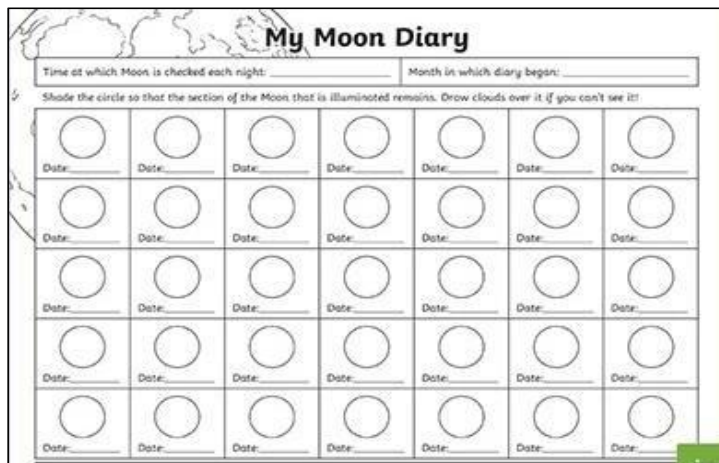
***“When you look at the stars and galaxy, you feel that you are not just from any particular piece of land, but from the solar system.”***

- Kalpana Chawla

## **SCIENCE**

### **1. MOONASTICS: Learn Moon Phases**




































Observe the Moon every day and record the shape of the Moon in the given table.



**My Moon Diary**

Time at which Moon is checked each night: \_\_\_\_\_ Month in which diary began: \_\_\_\_\_

Shade the circle so that the section of the Moon that is illuminated remains. Draw clouds over it if you can't see it!

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  |
| <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  | <br>Date: _____  |
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| <br>Date: _____ | <br>Date: _____ | <br>Date: _____ | <br>Date: _____ | <br>Date: _____ | <br>Date: _____ | <br>Date: _____ |

Now, on the basis of your observation, make a model of phases of moon using black background (A3 sized black sheet) and silver cut-outs (aluminum foil) as shown:




### **2. Create your own 3-D spacecraft:**

Do you love protecting your world in the space? Enemies are on the move to enter the Earth to dominate it and expand their territory. Let's become a great savior and protect our planet now. Design your own spacecraft. All you need is a plastic bottle, colored sheets, fevicol, cardboard, scissors. Let's recycle the plastic bottles..... You can google for better ideas.....



Describe your spacecraft through the acronym as given below and stick on your model:

|          |       |
|----------|-------|
| <b>S</b> | _____ |
| <b>P</b> | _____ |
| <b>A</b> | _____ |
| <b>C</b> | _____ |
| <b>E</b> | _____ |



3. Research and collect information to make a foldable hanging space chart/scrap book 'My little universe book', include any 5 topics of the following:  
Constellations, Galaxies, Asteroids, Black Holes, Moon, Planets etc.



Each flap/ page should have information about their origin, location, size, composition and 3 interesting facts too. (Use pastel sheets, colours etc. to make the chart/ scrap book look attractive.)

4. Let's observe the night sky-



Constellations are groups of stars. The constellations you can see at night depend on your location on Earth and the time of year. Constellations were named after objects, animals, and people long ago.

Create your own constellation card with any one constellation of your choice card (using waste material)

and mention the following:

1-Name of the constellation

- 2- Picture
- 3- Observation Time
- 4- Location
- 5- Any 2 interesting facts

**ENGLISH**

**1. Review your story book, 'Tunnel to the unknown' And do the book back exercise.**



**2. Letter Writing:** Write a letter to your friend who is in ISRO and ask for her/his experience.

**3. Interactive Fans:** Make a neat and colorful interactive fan of the solar system. It should

have pictures (drawn or print outs) of the planets, their names and one line about them

each. You can use white or colored sheets, colored pens and pencils and decorative material to make it more attractive.

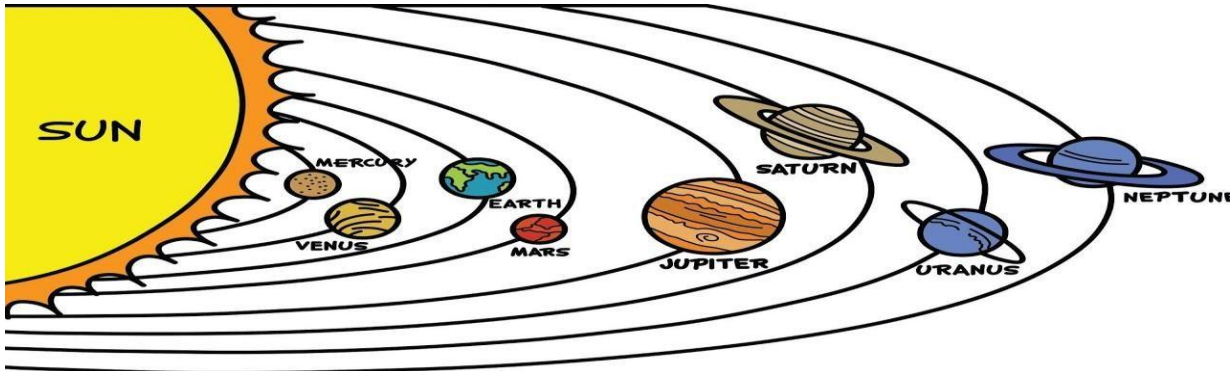


**3.** There are many Indian space scientists like Vikram Sarabhai who have either worked for or are still exploring some of the undiscovered facts of the universe. Find out the names of two such people and fill in the details for them in the given format.

|  |  |
|--|--|
| <p><i>Name of the Indian Space Scientist:</i> _____</p> <p><i>Date of Birth:</i> _____</p> <p><i>Place of Birth:</i> _____</p> <p><i>Name of the mission/invention he/she is famously associated with:</i></p> <p>_____</p> <p><i>Awards and Honours received:</i> _____</p> <p><i>Books/ Journals written, if any :</i> _____</p> <p><i>His/ Her contributions towards the betterment of society:</i></p> <p><i>:</i> _____</p> | <div style="border: 1px solid black; padding: 5px; width: 100%;"> <p>Paste a picture<br/>of the<br/>Space scientist</p> </div> |
|--|--|

## MATHEMATICS

The distance between planets will vary depending on where each planet is in its orbit around the Sun. Sometimes the distance will be closer and at other times they will be farther away.



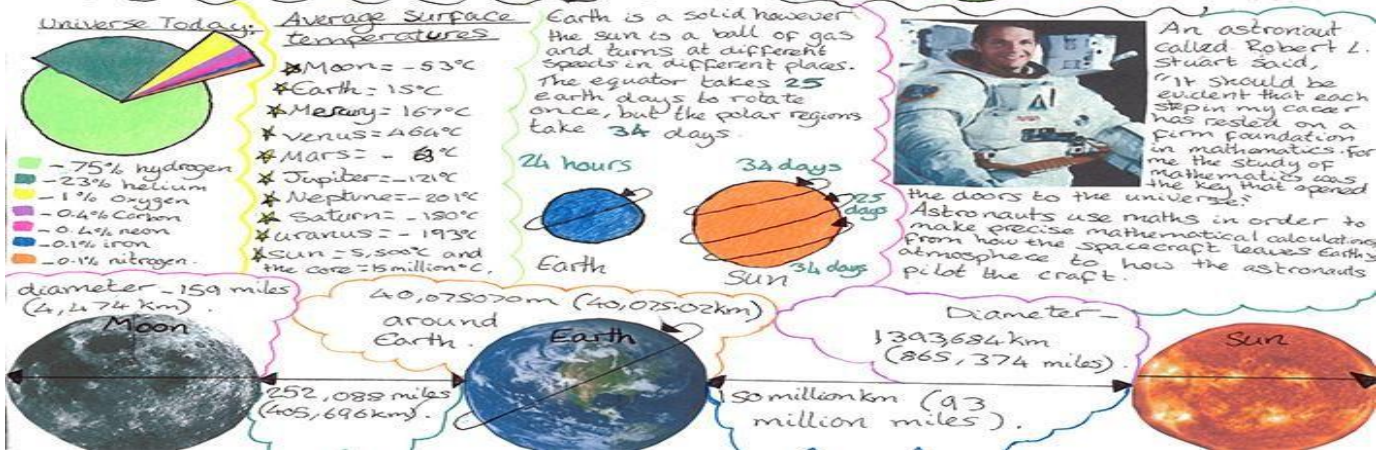
- The average distance between the Earth and the Mercury is 569741 miles. Put commas as per Indian and International value system in the given number and also write the number name in both systems.
- The average distance between the Earth and the Venus is 25,724,767 miles. Estimate the given number to the nearest tens, hundreds and thousands.
- The average distance between the earth and Mars is 48,678,219 miles. Write the successor and predecessor of the given number.
- Arrange the three above mentioned distances in ascending and descending order.

**NOTE:** Do the above activities on an A3 sized sheet and also paste relevant pictures on the sheet along with each question.

### ACTIVITY: - POSTER FUN: MATHS AND SPACE

Make a poster on an A3 sized sheet relating the use of Maths in Space (radius, temperature, distance, composition, etc. of different planets, stars, satellites). You can search internet for more ideas.

# MATHS AND SPACE!



## HINDI

- सौरमंडल के सभी ग्रहों के नाम हिंदी में पता करें। उसके बाद ड्राइंग शीट पर सौरमंडल को बनाएँ तथा उनके नाम हिंदी में दर्शाएं। इसके बाद नीचे दी गई पहेलियों के जवाब दें।
- बूझो तो जाने, फिर हम आपको ज्ञानवान मानें।
  - सौरमंडल का केंद्र है, इसके इर्द गिर्द घूमते सभी ग्रह हैं, बताओ तो उसका नाम क्या है?
  - आकार में 5वां सबसे बड़ा ग्रह है और सूर्य से दूरी के क्रम में तीसरा ग्रह है। यह सौरमण्डल का एकमात्र ग्रह है, जिस पर जीवन है; बताओ तो वह क्या है ?
  - सौरमंडल में सातवें स्थान पर आता हूँ और सबसे ठंडा ग्रह कहलाता हूँ, बताओ तो भला मैं कौन हूँ?
  - सबसे छोटा मैं ही हूँ, चाँद से आकार में थोड़ा- ही बड़ा हूँ, बूझो तो मैं कौन हूँ?
  - मैं सबसे चमकीला ग्रह हूँ, 'भोर का तारा' कह कर भी मुझे लोग जानते हैं, बताओ तो मैं कौन हूँ?
- अब आप भी किसी भी एक ग्रह से संबंधित एक पहेली बनाकर उत्तर सहित लिखिए।
- एक अलग कॉपी बनाकर 15 सुलेख कीजिए।

## SOCIAL SCIENCE

Project: Working Model of the Rotation and Revolution or Solar System

Objective:

To understand the concepts of Earth's rotation and revolution or the structure of the solar system through a hands-on project.

Instructions:

Choose Your Project:

**Option 1: Create a working model demonstrating Earth's rotation and revolution around the Sun.**

**Option 2: Create a working model of the solar system showcasing all the planets orbiting the Sun.**

Materials Needed:

Cardboard or foam board for the base

Styrofoam balls of various sizes (for planets and the Sun)  
Skewers or thin wooden rods (for axis and orbits)  
Paints and brushes (to color planets and the Sun)  
Glue or adhesive tape  
Scissors and a ruler  
Labels or small flags (to name the planets)  
Steps to Follow:

### **Option 1: Earth's Rotation and Revolution Model**

Base Preparation: Take a large cardboard or foam board as your base.

Sun Model: Paint a large Styrofoam ball yellow to represent the Sun and fix it at the center of the base.

Earth Model: Paint a smaller Styrofoam ball blue and green to represent Earth.

Axis: Insert a skewer through the Earth ball to show its axis. Tilt the axis to demonstrate Earth's axial tilt.

Orbital Path: Draw an elliptical path around the Sun on the base to represent Earth's orbit.

Rotation and Revolution Mechanism: Attach the Earth model to the orbital path using a wooden rod, allowing it to rotate on its axis and revolve around the Sun.

### **Option 2: Solar System Model**

Base Preparation: Take a large cardboard or foam board as your base.

Sun Model: Paint the largest Styrofoam ball yellow to represent the Sun and fix it at the center of the base.

Planet Models: Paint smaller Styrofoam balls to represent each planet. Use different colors for each planet and make sure to size them relatively correctly.

Orbital Paths: Draw concentric circles around the Sun on the base to represent the orbits of the planets.

Attach Planets: Fix each planet on a skewer or thin wooden rod, positioning them on their respective orbital paths.

Labeling: Label each planet with its name using small flags or stickers.

Presentation:

Once your model is complete, write a short description of what your model demonstrates. Explain the concepts of rotation and revolution or the characteristics of the solar system. Be prepared to present your model and explanation in class.



**HOLIDAY HOMEWORK WORKSHEET**  
**SUBJECT - MATHEMATICS**

Que 1. Write Roman numeral for each of the following numbers:

|     |     |
|-----|-----|
| 77  | 495 |
| 189 | 501 |
| 197 | 345 |
| 202 | 246 |
| 449 | 466 |

Que 2. Write numbers for following Roman numerals.

|          |        |
|----------|--------|
| LXIX     | CXCVI  |
| CLXVI    | CI     |
| CXCIII   | CCV    |
| CCCLXXXV | CD     |
| CCXCVI   | CCXXIX |

Que 3. Which are of following are meaningless.

|    |         |
|----|---------|
| IC | CV      |
| CI | CXXXXVI |
| IL | CCCCXVI |
| LI | LLIV    |
| VC | CCV     |

Q.4 Find the sum of 2, 43,829; 14, 54,628 and 8, 39,249.

Q.5 Add 56,67,789 and 54, 76,089

**Q.6 Solve-**

- Find the difference between 753379 and 467063676.
- Add 7537 with the sum of 78537899 and 7412598.
- Subtract 78643 from the predecessor of 1000000
- Subtract 13, 91,803 from 52, 09,129
- Add 56.67,789 and 54, 76,089
- Add the following: 3,98,21,045 + 74,99,586.
- Add the following: 4,20,73,569 + 1,32,84,936 + 27,65,721.
- Subtract 18,34,976 from 27,12,364.

**Q.7 Add the following.**

$$54,96,381 + 2,08,69,834$$

**Q.8 Add the following.**

$$32,59,473 + 3,19,54,678 + 19,63,527$$

**Q.9 Add using the Lattice method.**

$$4,39,689 + 2,57,896$$

**Q.10 Subtract 20,96,487 from 32,58,392.**

**Q.11** A farmer grew 1,86,503 carrots in the year 2000. He grew 2,45,091 carrots in the year 2001. How many more carrots did he grow in 2001?

**Q.12** Arun bought a house for ₹62,56,790 and spent ₹10,090 on repairing. He also spent ₹4,65,830 on furnishing. What was his total expenditure?

**Q.13** A hill station had 59,95,640 visitors in the month of March 2000 and 72,34,965 visitors in the month of April 2000. How many more visitors came in the month of April than in the month of March?

**Q.14** In the first year 3,09,42,365 tickets of the play were sold. In the second year 9,80,746 tickets were sold and 6,21,09,572 tickets were sold in the third year. How many tickets were sold in the three years?

**Q.15** Manisha borrowed Rs. 97,83,985 from Lata for buying a house. He has returned Rs. 90,27,395. Find the amount that Manisha still has to return.

**Q.16** Before the recent housing boom there were 5,20,189 houses in Paddy County. Now there are 70,89,243 houses. How many houses were built during the housing boom?

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