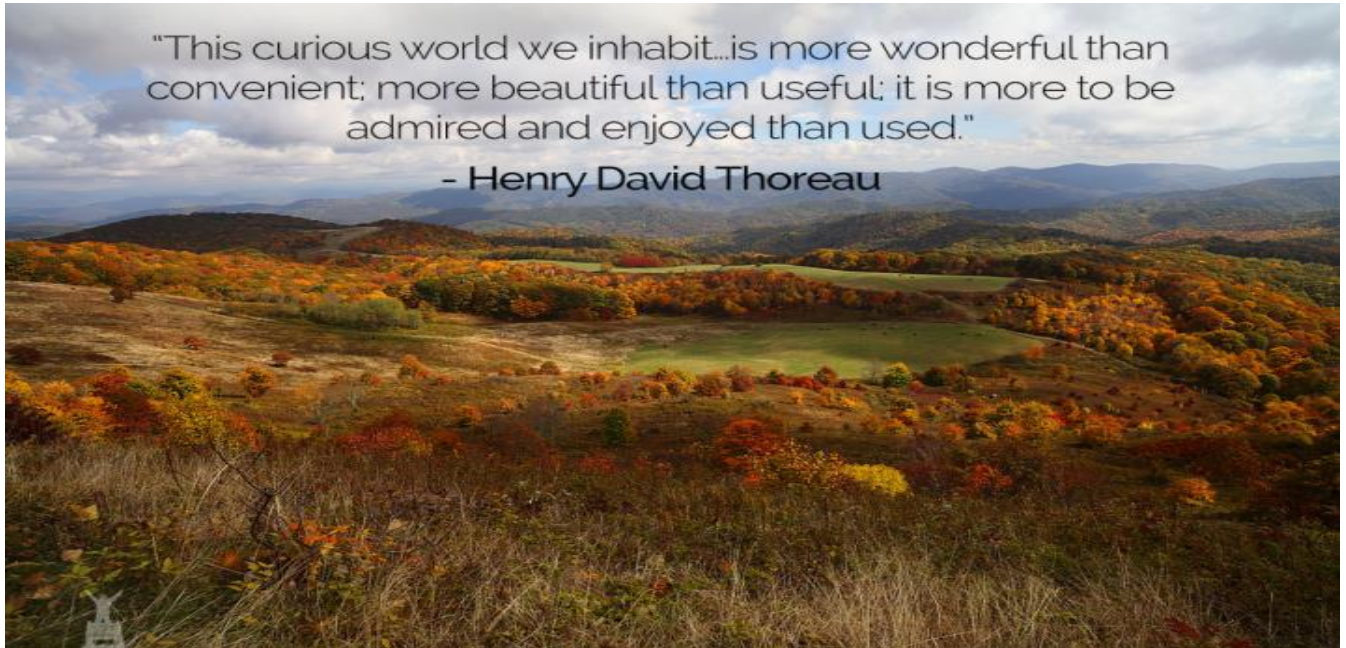




PRAGATI PUBLIC SCHOOL
HOLIDAYS HOMEWORK
CLASS IV (SESSION: 2025-26)

Theme: Back to Nature



Dear Students,

Let's cultivate a deeper appreciation for nature! Consider its beauty, its importance to our well-being, and the role it plays in our lives and the planet's health. .

Here's why connecting with nature is crucial:

It's good for our health: Nature reduces stress, improves mood, and offers opportunities for physical activity, all contributing to overall well-being.

It fuels creativity and learning: Exploring nature inspires curiosity, enhances observation skills, and provides a real-world context for scientific study.

It fosters a sense of responsibility: Understanding our dependence on nature can lead to a stronger commitment to environmental protection.

It's a source of beauty and wonder: Nature offers a rich tapestry of sights, sounds, and textures that can enrich our lives and spark our imagination.

With this thought in mind, this year we teachers have designed your holiday homework to keep you actively and fruitfully engaged during summer break. We have selected 'Back to the Nature's a theme of your holiday homework.

Points to remember:

- 1. Adhere to all the given directions.**
- 2. You will be judged on the basis of your content, handwriting and presentation.**
- 3. Reading story books should be focused on during the vacations.**



Research Work: Note (Make a scrap book and do the given work in the same scrap book)

1. Write the names of five **highest mountain peaks** of the world and five **deepest oceans** of the world.

- Write the heights of mountains and depth of oceans in numerals and words; arrange them in ascending & descending order.
- Find out which is the highest and smallest mountain peak?
- Find out which is the deepest ocean?

2. Below is the list of few animals. Do research and find out the number of teeth for each animal.

Elephant, Cow, Hippopotamus, Rat, Pig, Crocodile, Bear and Kangaroo

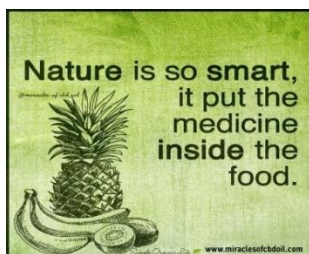
- For each animal round off the number of teeth to the nearest **10**. And also write them in **Roman Numerals**.

3. Collect information about any one Indian Mathematician and his contribution to the subject

4.. Write and learn tables from **2 to 12** and make it colourful.

4. Draw one beautiful **Rangoli** using **straight** and **curved lines**. Colour and decorate it.

5.. Make a **clown** using different shapes. Use waste materials like bangles, boxes, buttons, old pieces of cloth, ribbons and so on that is found at home easily.



“The world has enough for everyone's need, but not enough for everyone “ — Mahatma Gandhi

Let's go back to nature!

Note (Make a scrap book and do the written work of observation in the same scrap book)

1. Work on a project of “ **Kitchen Gardening**” at your home. If you have limited space then you can search about other innovative ideas to grow few plants/ herbs like using plastic bottles etc. Maintain a logbook for the same and write your observations weekly. You can attach pictures to support your observations too.
2. List five herbs/ plants that can be grown in a very small area. Search about **micro-greens**, their health benefits and grow your own micro-greens.
3. Learn ways to make manure out of home waste. Write all the steps involved and keep record of it including pictures of you while making manure
4. Few museums across the world are providing virtual tour. Visit one museum every week and write a summary about your visit, learning and observations.

1. <https://360tour.sciencemuseum.org.uk/>
2. <https://www.mos.org/mos-at-home>
3. <https://www.brusselmuseums.be/en/museums/museum-of-natural-sciences-royal-belgian-institute-of-natural-sciences>
4. <https://naturalhistory.si.edu/visit/virtual-tour>
5. <https://www.nationalmuseum.af.mil/Visit/Virtual-Tour/>
6. <https://www.sciencemuseum.org.uk/virtual-tour-science-museum>
7. <https://oh.larc.nasa.gov/oh/>
8. <https://www.naturalsciences.be/>

19:09

Project work: Make a project / model on any one theme . For your help link of the videos are given below

1. Solar Oven:

Create a solar oven using a pizza box, aluminum foil, and plastic wrap, and observe how it heats up food or water.



<https://youtu.be/HFwXPkI5OtU?si=Lkkz-1QOOst-4y1Q>

Objective: To make a homemade solar oven using pizza box / shoes box with materials that could be easily found at home. Description: A homemade solar oven works by catching sunlight using a reflector (aluminium foil) and reflecting it onto a black surface (black sheet of paper). The black surface transforms the light into heat and the plastic wrapper is used to trap the heat inside the oven. Materials needed: Pizza box / shoes box Glue Cutter Ruler Aluminium foil Transparent plastic wrapper Black paper Newspaper (Optional)

2. Hydroponics: Set up a small hydroponic system to grow plants without soil.



<https://youtu.be/PaoMduWaaPo?si=wEo6r23mkdfpoHP->

Hello kids, Let us learn how to setup Hydroponics At Home Using Plastic Bottles.

In simple, Hydroponics is growing plants without soil. Hydroponics replaces the use of traditional growth mediums like soil with a nutrient and mineral-rich water solution. Plants are grown with their roots in an inert medium. Growth mediums includes perlite, rockwool, coconut husk, rocks, cocopeat, sponge, foam, clay pellets, coconut fiber/coconut chips, or vermiculite. The key is you keep the roots exposed to a nutrient rich water solution. You can grow Lettuce, Spinach, Strawberries, Bell Peppers, Herbs. You may also try tomato egg plants too. Leafy greens like lettuce are the most profitable crops to grow in

hydroponic systems. With the professional setup and nutrient balance, you can grow any plant hydroponically. Do-it-yourself hydroponic systems come in different forms. You can build one using different locally-available materials such as recyclable plastic bottles, containers, boxes and even PVC pipes. Here we are discussing unit designed using recyclable plastic PET bottles. For this DIY Hydroponics, we will need the below materials that will be available mostly at home: 1. Empty 2 litre bottles 2. Sponge or any planting medium 3. Plastic Cups for Net cups (Use and throw cups) 4. Marker 5. Water 6. Hydroponic solution 7. Seeds of your choice (I'm using groundnut in this video) 8. Hot Glue

3. Homemade Water Filter

Build a simple water filter using layers of sand, gravel, and activated charcoal inside a plastic bottle.

- <https://youtu.be/60Big9Ut6Mc>
- https://youtu.be/LzrSOjxihtU?si=kQIX143mPsYB9_sJ



Global Warming and Green House Effect Working Model

Climate change refers to long-term shifts in temperatures and weather patterns. Human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas.



<https://youtu.be/mU184CB7Y64?si=26b6hluh6g4-dKv1>

5. Eco friendly house

: Design and build a model of an eco-friendly house that incorporate sustainable energy and water saving technologies .<https://youtu.be/XXjMxX1XoN4?si=dKwCjOIy5ilfYEu->



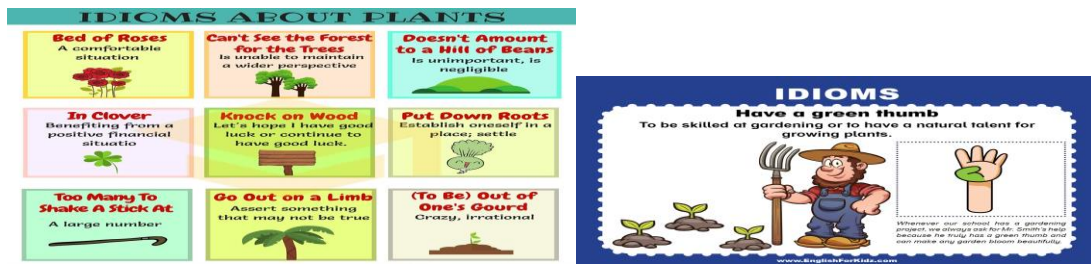
1. Story Stones/ Handkerchief



Activity:

- ✧ Students pick 3–4 stones randomly, roughly 2-3 inches . Each student must then create a short story using all the images on their stones in a logical order. For example:
- ✧ Stones picked: Sun, Dragon, Tree.pp
- ✧ Story example: "One bright sunny morning, a dragon woke up in the shade of a tree. The sun shone so brightly that the dragon decided to fly higher in the sky to see the world." Write about the story on an A4 size sheet and present is nicely.

2. Nature Idioms Booklet



Activity:

- ✧ Students create a booklet where they write down the idioms, their meanings, and use each in an original sentence. For example:
- ✧ *Idiom:* "Make hay while the sun shines."
- ✧ *Meaning:* Take advantage of an opportunity when it arises.
- ✧ *Sentence:* "We should finish our homework now, as we need to make hay while the sun shines."

3. Family Summer plus Creative Nature Booklet (Waste Material Decoration)



Activity:

- ✧ Students create a scrapbook to document their experiences. They will:
- ✧ Paste pictures from the activities.
- ✧ Write about their experiences and what they learned from them.

4. Copy one English paragraph neatly every day for 15 days.

You can choose short paragraphs from your English storybook, a poem you like, or a newspaper article.

Make sure to:

- ✧ Write neatly in four-line notebooks.
- ✧ Focus on correct letter formation, size, and spacing.
- ✧ Add the date on top of each day's work.
- ✧ Underline 3 beautiful words you like from each paragraph.

हिन्दी

1. प्रकृति की कहानी लिखिए:
 - “अगर मैं एक पेड़ होता...” या “अगर मैं एक नदी होती...” विषय पर एक छोटी कहानी लिखिए (8–10 पंक्तियाँ)।
 - अपनी कल्पना से कहानी में जानवरों, पक्षियों या तितलियों को भी जोड़ सकते हैं।
2. प्रकृति का थाली आर्ट बनाइए:
 - एक थाली (प्लेट) में पत्ते, फूल, बीज, छोटी टहनियाँ आदि चिपकाकर एक सुंदर कोलाज बनाइए।
 - नीचे उसका एक सुंदर नाम दीजिए, जैसे — “हरियाली की थाली”।
3. “प्रकृति का सुपरहीरो” बनाइए:
 - कल्पना कीजिए कि एक सुपरहीरो है जो पेड़ों और नदियों को बचाता है।
 - उसका नाम सोचिए, चित्र बनाइए और 5 पंक्तियों में उसका परिचय लिखिए।
(जैसे — ‘ग्रीन मैन’, जो सूखे पेड़ों को फिर से हरा कर देता है!)
4. प्रकृति पर एक गीत रचिए:
 - अपनी खुद की एक छोटी कविता या गीत लिखिए जो प्रकृति की सुंदरता का बखान करे