

COLUMBIA FOUNDATION SR. SEC. SCHOOL

HOLIDAYS' HOMEWORK CLASS VII



Holiday is the time that we all eagerly wait for. We all make plans to enjoy, relax, and empower ourselves. Aligned with the visionary tenets of the National Education Policy 2020, our aim is to enrich and perpetuate critical thinking, out-of-the-box thinking, and empathy among our students. In view of this, the holiday homework designed by the mentors of the school is the medium for you all to highlight the achievements of Viksit Bharat. We are incorporating integrated project-based learning wherein the students will prepare projects based on the above theme by inculcating the approach of collaborative learning.



GENERAL INSTRUCTIONS

- Create your own A3 size sheet with the help of waste paper/ cloth and decorate it well with waste materials for example bottle caps, refills, leftover pencils or crayons, lace etc.
- Use eco-friendly and sustainable materials for models or projects.
- The work should be authentic and creative.
- Project work should be done according to your roll no.
- Holidays' homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.



THEME : VIKSIT BHARAT

STATE : KARNATAKA

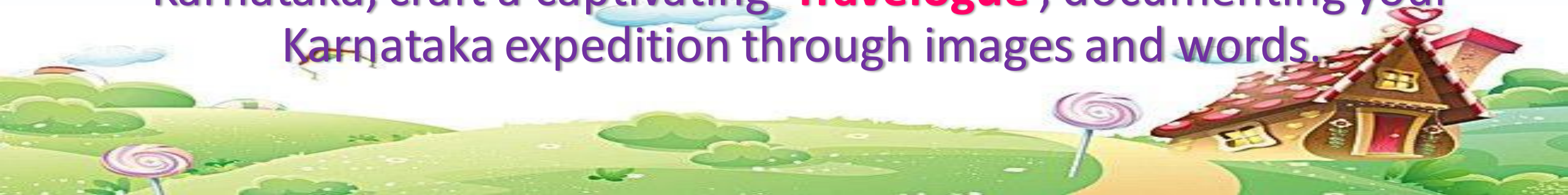
A concerted effort to preserve our heritage is a vital link to our cultural, educational, aesthetic, inspirational and economic legacy. India is a diverse country with a glorious heritage. In our endeavor to promote a sense of oneness among the students and to generate awareness about the rich culture. We have curated some famous cities of Karnataka to make the students unravel the hidden marvels and enrich their knowledge through the integration of different subjects.



ENGLISH

“Embark on an Imaginative Journey”

Karnataka is a state in Southwest India with Arabian sea coastlines. It is primarily known for its heritage destinations and its wildlife sanctuaries and National Parks. Apart from that, it is also famous for its magical hill stations, spectacular waterfalls, pilgrimage centres, etc. Stepping into the shoes of an adventurous traveller exploring the diverse landscapes and rich cultural heritage of Karnataka, craft a captivating ‘**Travelogue**’, documenting your Karnataka expedition through images and words.



HINDI

“साहस और संघर्ष के आदर्श: कर्नाटक के प्रतिभावन”

निम्नलिखित व्यक्तित्वों में से अपने रोल नंबर के अनुसार किसी एक के **जीवन चक्र (life wheel)** का निर्माण करें, और उसमें उनके जीवन की महत्वपूर्ण घटनाएँ, चुनौतियाँ, सफलताओं, और योगदान को चित्रों और शब्दों के माध्यम से अद्वितीय रूप से प्रस्तुत करें।

- C. V. Raman (1to4)
- E. Sreedharan (5to8)
- Srinivasa Ramanujan (9to12)
- Shakuntala Devi (13to16)
- R. K. Narayan (17to20)
- Anil Kumble (21to24)
- Nisha Millet (25to28)
- N. R. Narayanmurthy (29to32)
- K. Sivan (33to36)
- R. K. Laxman (37to40)

NOTE : Take the radius of the life wheel as 15cm.



SOCIAL STUDIES

“Setting out on a voyage of discovery”

The Indian Space Research Organisation (ISRO) is India's national space agency, with its headquarters in Bengaluru, Karnataka. It is responsible for the country's space research and exploration activities. They've achieved notable milestones, including missions to the Moon and Mars, as well as launching numerous satellites for various purposes and the continue to advance their capabilities with ambitious plans for future missions, including satellite launches, interplanetary exploration, and contributions to international space endeavours. Craft a '**Wall Hanging**' showcasing ISRO's journey with a timeline highlighting its key achievements.

SCIENCE

“Preserving Paradise”

National Parks and Wildlife Sanctuaries are incredible spaces for nature, culture and communities. Their main purpose is to conserve and enhance the natural beauty, wildlife and cultural heritage. Exploring the delicate balance between human recreation and environmental conservation, our inquiry delves into the intersection of tourism and national parks. In an era where sustainable practices are paramount, we seek to understand how responsible tourism can both enhance the visitor experience and safeguard the ecological integrity of these natural treasures.

- Analyse and describe the impacts (both positive and negative) of tourism on the ecosystems and wildlife of Karnataka's national parks and wildlife sanctuaries considering factors like visitor numbers, infrastructure development, etc.
- How do the detrimental impacts of plastic pollution intertwine with the serene landscapes of Karnataka's national parks, what innovative alternatives can be implemented to mitigate its use, preserving the natural beauty for sustainable tourism?
- Discuss the importance of environmental education and outreach programs in raising awareness about conservation issues and fostering a sense of stewardship among visitors and local communities.

MATHS

Being a responsible citizen of the nation, perform the following activity at home :

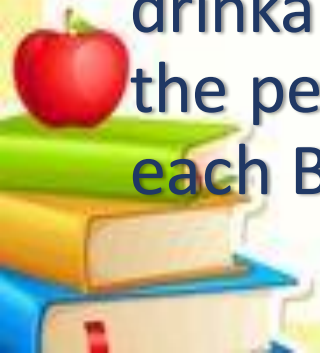
- During first week of June, record the consumption of water at your home by each person for different purposes (in litres). For e.g. Water used for bathing 20L, water used for cleaning 10L, etc. Tabulate the information and represent it in the form of a bar graph.
- Now, suggest suitable measures by which this water usage can be reduced. For e.g. Using a bucket instead of shower for bathing, appropriate use of waste water from RO, etc.
- After adopting above mentioned measures, again record your findings in second week of June and represent it in the form of a bar graph after tabulation.
- Analyse the data of both the bar graphs and find out how much water you have saved in the second week.

INTER-DISCIPLINARY PROJECT

“Thirsty Planet : Addressing the urgency of water scarcity”

‘We never know the worth of water until the well is dry.’ Bengaluru, the Tech Hub of India, is hard hit with a water crisis as the region is facing acute water shortage due to a failed Northeast monsoon. Adding to this crisis, the groundwater resources have dried up and could not be replenished. Moreover, the water bodies including lakes and reservoirs have dried to their rock bottoms.

- ‘Let’s take a sip of knowledge! Firstly, in Earth’s vast water reservoir, what percentage is freshwater? Then, within this freshwater supply, how much is drinkable? Zooming into Bangalore’s aquifer, what fraction is accessible to the people of Bangalore? Finally, how many sips from this local source can each Bangalorian savour every day?’





- 'Amidst this watery exploration, let's also ponder the depth of our resources. With increasing demand, how fast is Bangalore's water table depleting? What measures can be taken to ensure its sustainability for future generations?
- Let's dive into the world of water scarcity creatively! If you were to wake up tomorrow in a world where water is scarce, what changes would you notice? Write a letter to a friend describing the effects of water scarcity on your daily life. Use your imagination to paint a vivid picture of this challenging reality in the form of a beautiful poster.
- Imagine you are a scientist tasked with creating a magical device to conjure water from thin air. Describe the workings of your invention, the adventures it embarks on, and the challenges it faces in a world thirsting for solutions. Let your imagination flow like the water you generate, and inspire us with the possibilities of Atmospheric Water Generators.



ART

“Tray using Newspapers”

Make a tray using newspapers as shown in the image and bring it to the school after vacations. Materials required for the same are : Waste Card board, newspapers, Colour papers, glitter sheets, fevicol , decorative materials, etc.



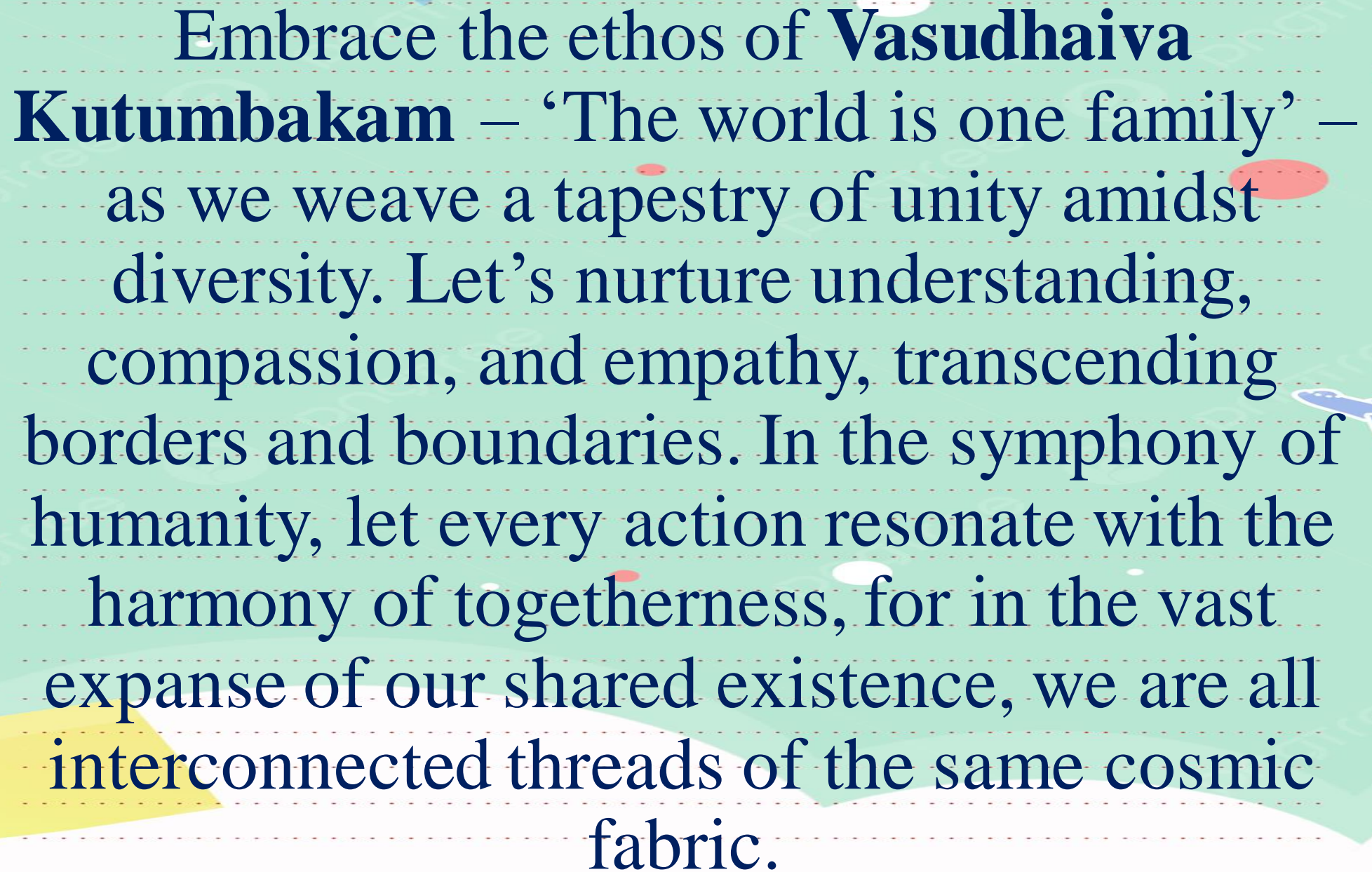


PROJECT WORK

Prepare a beautiful 3-D model with a chart to explain the concept of your model on the following (according to your Roll number) :

- Hampi (1to4)
- Mysore Palace (5to8)
- Statue of Gomateshwara (6to12)
- Bandipur National Park (13to16)
- Ranganathittu Bird Sanctuary (17to20)
- Udupi Sri Krishna Temple (21to24)
- ISRO's Work Stations (25to28)
- Missiles launched by ISRO (29to32)
- Satellites launched by ISRO (33to36)
- Timeline of Achievements of ISRO (37to40)



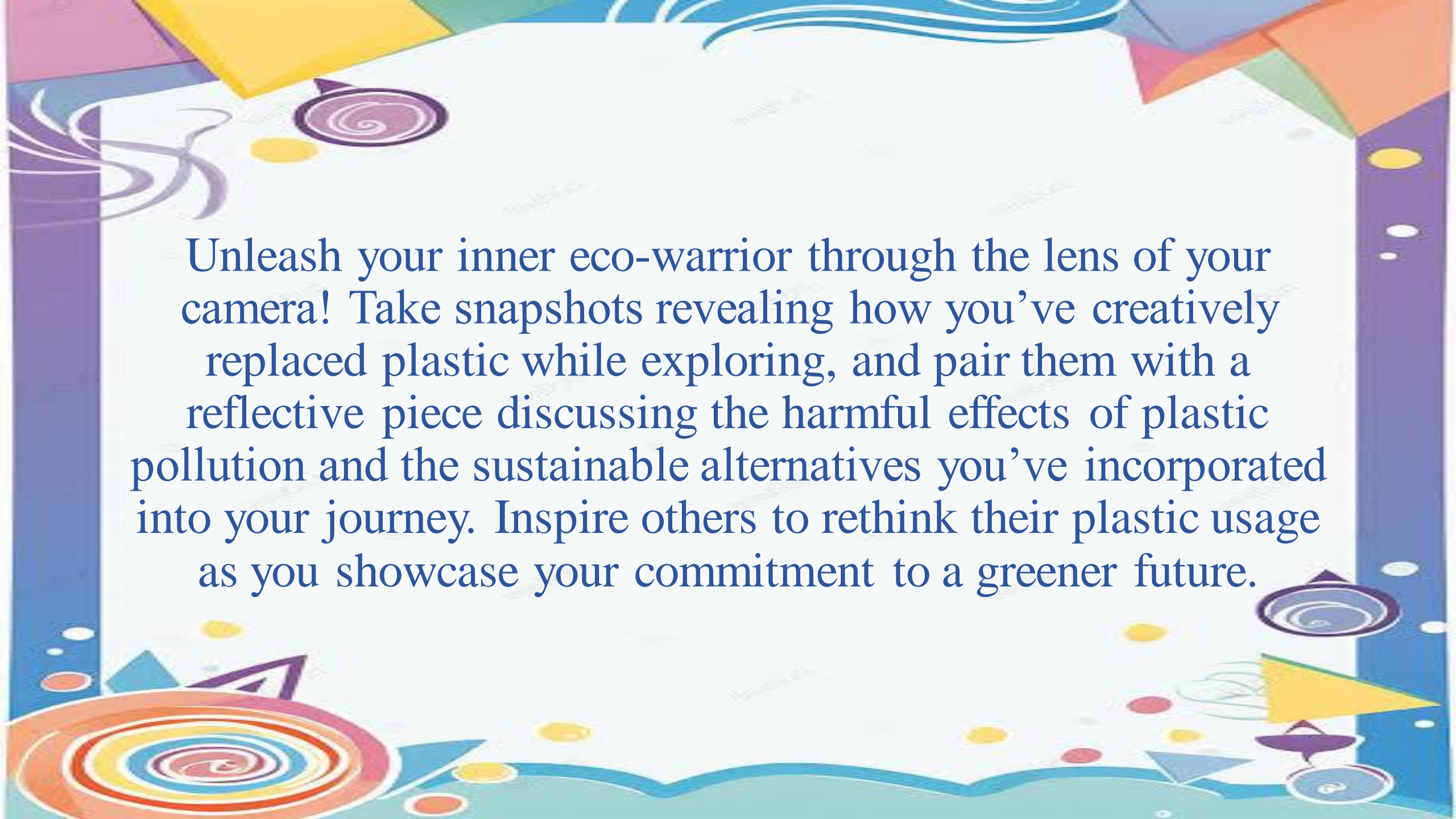


Embrace the ethos of **Vasudhaiva
Kutumbakam** – ‘The world is one family’ –
as we weave a tapestry of unity amidst
diversity. Let’s nurture understanding,
compassion, and empathy, transcending
borders and boundaries. In the symphony of
humanity, let every action resonate with the
harmony of togetherness, for in the vast
expanse of our shared existence, we are all
interconnected threads of the same cosmic
fabric.

COLUMBIANS BELIEVE IN SUSTAINABILITY

Cultivating plants in recycled plastic bottles and containers is a creative and eco-friendly way. Grow plants using seeds of fruits eaten by you like mango, litchi, papaya, etc. Watch them grow and also nurture them by taking proper care. You can grow as many as you want . All the saplings should be deposited at school after vacations. One who grows the most number of plants will be acknowledged by the school.





Unleash your inner eco-warrior through the lens of your camera! Take snapshots revealing how you've creatively replaced plastic while exploring, and pair them with a reflective piece discussing the harmful effects of plastic pollution and the sustainable alternatives you've incorporated into your journey. Inspire others to rethink their plastic usage as you showcase your commitment to a greener future.

DIY BIO ENZYMES FOR A SUSTAINABLE FUTURE

Are you up for a green cleaning revolution? Say goodbye to plastic-packed toilet cleaners and hello to homemade eco-solutions! Join the movement to reduce plastic waste by creating your very own bio enzyme cleaner. Share your journey of DIY sustainability and inspire others to ditch the bottle for a greener, cleaner world!

Take help from the link given below:

<https://www.soilandhealth.in/bioenzyme/>



HAVE A FUN FILLED VACATION!

