

PANCHATATTVA



Environmental Pledge

From today onwards I promise to share my passion for animals, reduce my impact on the environment, learn about the world around me and work together with my family, friends and fellow mates to protect the plants, animals and their homes.

NURTURE NATURE NATURALLY



**ECOITES
ECO-WARRIORS**

ELIXIR OF EXISTENCE

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PREFACE

Earth, water, fire, air and ether - the five elements that constitute the essence of the world we see. These five elements are energies, cradled in the folds of the Earth's secrets, waiting to be realised and respected. In Hinduism, they are known as the five tattvas or the 'Pancha Tattvas', the activities of which composes the crux of this magazine.

It is an endeavour of Delhi Public School Raipur, to enlighten the minds, young and old, about the significance of the resources of the earth, and mirrors the reality of their limitations. This magazine is an effort of the school to vitalise the young minds into realising their duties as the future stakeholders of the 'treasures of the tattvas'.

To inculcate into each one of us the fact that survival of each species depends on its interaction with the surrounding environment, activities were conducted by the students. As we see there are consistent effects of bio-diversity loss hence creating a positive and sound environmental behaviour becomes a quintessential part of today's academic curriculum. Our attempt highlights the study of functioning of environment, the existence of dynamic equilibrium between natural system and human system through plethora of activities like Save Sparrow Campaign and Rally for Rivers to name a few.

We aim to take this environmental cognizance to a global platform and empower students to weigh earth's environmental carrying capacity.

This book is a compilation of the diverse and wide-ranging activities which were conceived during the session inducing the students to make them come closer to nature and comprehend the rationale of Panchatattva.



Science Faculty Display Board with the theme 'Panchatattva'



E A R T H

*Often my life is stressed,
So I go out to mother nature to get some rest.
The soft grass it hugs me nearer,
Than almost any person, that I hold dearer,
Because people are the ones who fly away,
Not the blue birds that land and stay.*

*Insects crawl by, yet they're not
The ones that bug me a lot.
The wind blows gently across my face,
I stare past the blue sky, into the space.
The sun bathes me in its warm rays,
And there I will sit, in the best of its sleighs.*

*Nature is best because it helps me escape,
The chair of technology, to which I am taped.
The trees they sway, to the left and the right,
And the crickets chirp, all through the night,
And as I take in, all these sounds and these sights,
I simply step back, and enjoy my life...*

*- Isha Baghel
(VIII-E)*

VANMAHOTSAV



Forest department of Chhattisgarh organised a plantation drive on 2nd August, 2018 to spur on the people of Chhattisgarh, the significance of greenery through Vanmahotsav - Harihar Chhattisgarh Samridh Chhattisgarh. Students of Delhi Public school Raipur, along with students of other schools participated and witnessed the programme exuberantly. The programme was inaugurated by the Chief Minister of Chhattisgarh Dr Raman Singh who motivated students for plantation not only in this drive but also in future. Students also opined on the values of plantation and expressed their desire to participate in such programmes in future as well.

TREE PLANTATION DRIVE



Our environment is the greatest gift of Mother Nature to us. A clean environment is vital to have a peaceful and healthy life. The negligence of human beings, however, has put our nature in a dangerous threshold. In order to make generations become more sensitive and concerned about their environment and to reinforce positive attitude and values towards preserving it, DPS Raipur initiated a drive called 'Prakriti Mahotsav' wherein students planted trees native to Chhattisgarh. Each tree was given a unique name of a Martyr for proper identification and personal touch. Students enthusiastically participated in plantation drive and took the responsibility of observing and nurturing the trees and made the Mission Green Schools a success.

COMPOSTING AT SCHOOL



Composting is a great way to convert a school's food scraps and yard waste into natural fertilizer. Eco club made an effort to collect bio degradable waste on a daily basis which was then put into a compost pit created in the school premises. The students enjoyed segregating organic food matter and depositing it in a pit for compost. The waste collected in the compost pit was converted into manure and used for gardening.

Other benefits include

- Empowering and encouraging students to take positive environmental action.
- Diverting waste from the landfill and preventing the subsequent production of methane (a powerful greenhouse gas)
- Helping the school to reach its sustainable targets.
- Educating family and community members about the benefits of composting.



MAKING OF BIO-DEGRADABLE BINS



Students enjoyed doing the various activities of Eco Club and also learnt about the methods of solid waste management. Biodegradable waste collection bins were made and placed in the corridors to collect the biodegradable waste on a daily basis.



OCEAN

W A T E R

*Blue sky above you,
Life swimming below you.
What a nature's drama you are,
Sometimes violent, sometimes calm you are.*

*What a magnificent movement you have!
Up and down, up and down go all your wave.
Many of us tried to explore you even in pain,
Some of them succeeded, others lost in vain!*

*What would earth look like,
If you would not be there to adorn it?
Alas! We have made you dirty,
We are really sorry for making you murky.*

*Now we are realizing our mistakes,
When you, azure and nature are at stakes.
We are trying to improve ourselves in all ways,
Till then, please wait my dear, dearest waves.*

*- M. Amith
(X-B)*

INTER-CLASS COMPETITION ON 'RALLY FOR RIVERS'

Everyone who consumes water must Rally for Rivers



To raise awareness about the rivers in the masses, DPS, Raipur organized an awareness event – an inter-class art competition on 'Saving Rivers: India's Lifelines'. The innovative ideas expressed by the young children would motivate others in conservation and judicious utilization of water. The participants were instrumental in spreading the message of conservation, as water literate and water conscious citizens



AIR

- *Kriti Shukla*
(VIII-E)

RECYCLE AND REUSE OF WASTE PAPER



The objective of this activity was to encourage children to follow the 3 R's i.e. Reduce, Reuse and Recycle by making handmade paper and paper bags from waste paper and old newspaper respectively. Children enjoyed doing the activity and became more sensitive towards the environment.

MEDICINAL GARDEN

Students learnt to grow medicinal plants such as Tulsi, Aloe Vera, Neem etc by the school gardener. The uses of these plants in our daily life were discussed.



The objective of this activity was to motivate the students to develop the hobby of gardening and also to impart knowledge about the medicinal uses of plants.



MAKING OF BIRD FEEDERS/BIRD HOUSE

Children made bird houses/bird feeders using waste plastic bottles, cardboard etc. It was a best out of waste activity where children learnt to be eco-friendly and also to realize their responsibility towards nature.

ECO-CONSERVATION WORKSHOP

A two days Eco-workshop was conducted at Delhi Public School, Raipur on 11th and 12th July through 'Conservation Educational Program' to guide students of the schools of Raipur entitled 'Roadmap to Climate Change and Conservation Congress, USA, 2019.'

The conscientious and holistic workshop was organized by The Maria's Braveheart, Rajasthan and chaired by Mr. Biswajit De - Creative Director and International Coordinator of Marias Public School, Guwahati Assam.



MARIA'S BRAVEHEART CAMP, GAILPUR, RAJASTHAN



The Maria's Braveheart, a specialized Training Camp and Facility and the National Coordinator School for the Green Schools Alliance, USA, organized a specialized training programme entitled Environmental Stewardship-'Exploring Collective Solutions for Climate Change & Conservation' from 12th to 17th November'2018 at Gailpur, Rajasthan under the able guidance of Nellie Ahmed Tanweer - Founder & Managing Trustee, Maria's Public School, Guwahati, Assam, the National Coordinator School for the Green Schools Alliance, USA and Biswajeet De, Chief Trainer and National Faculty Coordinator for the Green Schools Alliance. The first two days at the camp witnessed back to back activities like Mascot Making, Herbarium Designing, Bird Watching, etc.

The canter safari ride to Ranthambore National Park was a memorable event where the students saw a tiger relaxing and another moving around. It was very great feeling to see and shoot them lively. The students also learned survival skills which one can use in order to sustain life in any type of emergencies like - first aid practiced during snake bite, to start a fire with flint and CPR (Cardio Pulmonary Resuscitation). It was a learning experience for children which they will cherish lifelong.

SAVE SPARROW



The eco -champs in an initiative to save sparrow created new kind of sparrow feeders and installed at different venues in the school premises. It will provide food and water to sparrows resulting in increasing their number.



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NATURE

*It's not much what we've got....
I mean the sunshine that makes my son blind
And little water that cleanses his soul and mind
Yet mother toughens her child,
Gets him ready to go into the wild.
Who rides his bike glancing over the sea
Which is the same, as up we see (reflection)
Stopped by the rage of thunder
Finds a tree, gets under.
Notices the environment, what's created what's not.
Kneels down, touches the ground, feels the wind
Sees up, nothing but the sky, and sighs why!
Gets up, prepares himself, as he can't wait
Has no time left, has to haste
Saves the emotion for yet another day
A day with a bit more time
When he can do more than a sigh!*

- Onkar Kuthi
(X-B)

FIRE SAFETY



Fire is a powerful element, which poses the need for a meticulous handling. Together with the element of air, it can be a blessing for human harvest or the bane of destruction. To make the students realize its potential and discern its careful use, a fire drill was conducted for the students of class VII. They were given an insight on the use of fire alarms and fire exits, and how to brace themselves in the hour of crisis.

SOLAR COOKER - MODEL MAKING



Bio mass and petroleum fueled cooking fires pollute the air and contribute to global warming. Solar cookers are pollution free and when used in large numbers may help curb global warming. Children of eco club made models of solar cookers and understood the importance of the solar cooking movement which helps in preventing pollution, preventing deforestation etc and thus saving the environment.

EARTHEN LAMP MAKING AND DECORATING ACTIVITY



Children of eco club enjoyed the activity of making the earthen lamps and decorating the old earthen lamps. This activity inculcated the value of reuse in them.



GREEN DREAM

*There's a dream of mine
To make this world shine
I want people to live happily
By being eco-friendly thoroughly.*

*Tomorrow's scene is gray and grey
Green will disappear, blue will stray.
Forests are where animals can breed
But trees are all gone because of our greed.*

*My green dream is just a plea,
It is all about how you see.
Your future is in your hands,
Or else you will stand in barren lands.*

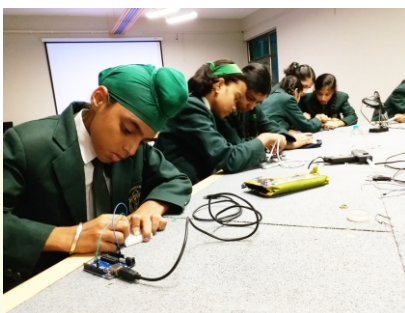
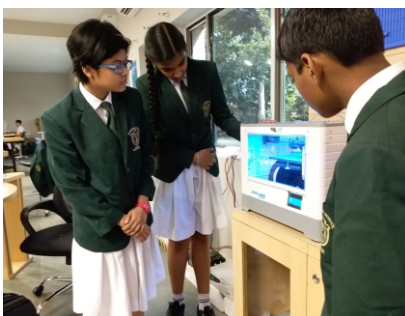
*Let's shine the nature's pride,
And soon initiate this fight.
Your dream is now mine
to make this world shine.*

*- Ananya Garg
(VIII-E)*

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ATAL TINKERING LAB

Atal Tinkering Lab is an approach by Central Government of India NITI Ayog to create an environment of scientific and entrepreneurial mindset which will pave the way forward for developing a New India by temperament, innovation, creativity among Indian students. It is a step towards skilled India. Its objective is to provide students a chance to work with tools and equipments, to understand what, how, and aspects of STEM (Science, Technology, Engineering and Math). In this regard, regular ATL classes are being conducted for students to transform them into innovators for a developed 2022.



Pranjal Agrawal of class VIII and Saksham Gupta of class VI garnered Bronze medal in the Indian Science and Engineering Fair (INSEF), organized in Bhavan's R.K. Sharda Vidya Mandir.

SCIENCE QUIZ COMPETITION

To encourage positive competition and to bring out the best in all its students, a science quiz was conducted for students of classes VI-VIII. Students participated enthusiastically and learnt through all possible ways-beyond their textual knowledge.



TOYS FROM TRASH



With an aim to spread community learning and an attempt to give buoyancy to children that they can do something better by themselves, students of class V Delhi Public School, Raipur conducted a workshop on 'Toys from Trash' on 29th October 2018 at the Government School, Nardaha, Raipur.

The main objective of the workshop was to give them opportunity to come up with wonderful ideas to reuse trash and make delightful toys and explore into a world beyond just textbooks. DPS students initiated and invited their counterpart from government school, Nardaha to try and make their own toys with junks such as plastic bottles, coke can, matchsticks, bottle caps, compact disc, empty toothpaste tube, straw, ice-cream sticks and balloons etc.

Even though the students haven't yet learnt about the correlation of gravitation, area, force, surface tension and air pressure in their science classes, they are likely to remember how it works for classes to come because apart from imparting and giving vent to children's creative abilities, the workshop redefined the connection of science with toys and kids.

PAGES OF THE PRESS

The**Hitavada**

■ Friday ■ July 13 ■ 2018

Delhi Public School, Raipur conducts Eco-workshop



Students of different schools posing for a group photo session during the Eco-Workshop organised at DPS.

■ Staff Reporter
RAIPUR, July 12

A TWO-DAY Eco-workshop on 'Conservation Educational Program' was held at Delhi Public School, Raipur from July 11. Main objective of the workshop was to guide students of the schools of Raipur entitled 'Roadmap to Climate Change

and Conservation Congress, USA, 2019.'

The conscientious and holistic workshop was organized by Maria's Braveheart, Rajasthan and chaired by Biswajit De, Creative Director and International Coordinator of Marias Public School, Guwahati (Assam), Government Girls High School (Nardaha), Bhawans, Gyan Ganga

Academy, NH Goel World School, Bal Bharti School, Seepat were invited to listen and galvanize their views and aspirations in the workshop.

Climate vulnerability was discussed at length through videos, slides and interviews, and the gravity of disasters occurring around the globe was assessed. The present generation feels that unless

global warming is stalled, it will keep accelerating the melting of ice in the Polar Regions which is bound to swivel the flora, fauna and the entire human race. Interactions with the spokesperson endorsed students evolving as eco-warriors ready to make sacrifices for restoring the eco-friendly environment that seems missing these days.

Principal of DPS Raipur Raghunath Mukherjee applauded the untiring efforts of Nellie Ahmed, Director of Maria's Public School, Guwahati to connect the schools across India through Conservation Education. Pro Vice Chairman Baldeo Singh Bhatia lauded the initiative of the students in preparing themselves for cosmic empathy. Even the Senior Members of the Management Committee Vijay Shah and Pukhraj Jain appreciated the students' clarification call for a safer environment and their role in creating awareness among the youth.

The**Hitavada**

■ Thursday ■ November 1 ■ 2018

DPS conducts workshop on 'Toys from Trash'



DPS, Raipur students conducting workshop on Toys from Trash at Government School, Nardaha.

■ Staff Reporter
RAIPUR, Oct 31

WITH an aim to spread community learning and an attempt to give buoyancy to children that they can do something better by themselves, students of Class-5 Delhi Public School, Raipur conducted a workshop on 'Toys from Trash' on October 29 at Government School, Nardaha, Raipur.

The main objective of the workshop was to give them opportunity to come up with wonderful ideas to re-use trash and make delightful toys and explore into the world beyond just textbooks. DPS students initiated and invited their counterpart from government school, Nardaha to try and make their own toys with junks such as plastic bottles, coke can, matchsticks, bottle caps, compact disc, empty toothpaste tube, straw, ice-cream sticks, balloons etc.

Even though the students

haven't yet learnt about the correlation of gravitation, area, force, surface tension and air pressure in their science class, they are likely to remember how it works for classes to come because apart from imparting & giving vent to children's creative abilities, the workshop redefined the connection of science with toys and kids.

Principal Raghunath Mukherjee and Headmistress R Bhavani appreciated the efforts of the students thereby boosting their confidence which brought a smile on each face.

"The Message of recycling should be made popular as a fundamental concept that can cleanse the environment slowly but surely and also produce self-effacing individuals who can later on pursue careers based up on this concept," said Pro-Vice Chairman Baldeo Singh Bhatia. General Secretary Vijay Shah said "It is because of this belief that the school has promoted this workshop".

FUTURE THRUST

1. Expansion of oxy-zone.
2. Hear from an environmental expert.
3. Visit a local museum or science centre.
4. Eco fashion show to create awareness for go green for class 6.
5. Conduct a retail eco-friendly audit of top five to ten products used each day.
6. Visit to water treatment plant. (Primary)
7. Visit to science centre. (Primary)
8. Nature walk. (Primary)
9. Earth hour-a signature campaign. (Primary)

AMAZING FACTS!

Here's a list of four such eco-warriors that experts are studying and breeding, the “environment –saving” potential which, will blow your mind!!

MEALWORM: These tiny worms are basically the larvae form of the darkling beetle can feed and survive on a diet of Styrofoam and other forms of polystyrene. In fact, micro-organisms present in the meal worm's gut biodegrades the plastic, which could be the potential solution to plastic problems.

WAXWORM: These worms are commonly found in beehives and also used as fishing bait. These wax worms could eat its way through polyethene, used to make plastic bags and water bottles 1400 times faster than other organisms. The discovery of the wax worm's power was somewhat an accident.

MYCELIUM: Mycelium which basically refers to mushroom roots can successfully break down biodegradable waste to produce net like white threads. A New York based company Ecovative, is using this material for packaging as an alternative to plastics.

WATER HYACINTH: In addition to purify sewage water, when harvested can productive biogas .This plant goes by feeding on nutrients like phosphorus and nitrogen from the waste water.

Submitted by **Aanushreya Namdev** (VII-G)

DELHI PUBLIC SCHOOL, RAIPUR

We will:



Switch off lights when leaving the room or if it is sunny.



Turn off electrical appliances when they are not being used.

Recycle or reuse items to reduce waste.



Buy environmentally friendly products and materials.

Eat variety of vegetables & not waste food.



Save water by turning off taps when we have finished.



Reduce pollution by using school transport to get to school.

Make sure all waste is disposed of in the bin.



Respect the school site and care for its premises



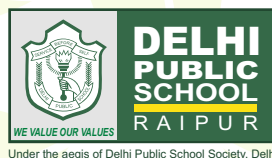
Recycle and compost as much food waste as possible



ECO CODE



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