



MEGA CLEANLINESS DRIVE (2019-20)

Theme- Climate Hawks: A Small Step to Combat Air and Water Pollution

Organised by- ITL Public School

Conducted by- Department of Science

Participants- Students of Classes I- XII

Venue – ITL Public School

Date- 1st -14th August 2019

“One, who maintains cleanliness keeps away diseases.”

Pollution free environment is a utopia which can become a reality only when young children are sensitized towards it. To inculcate the value of serene and clean environment, ITL Public School, organized ‘**Mega Cleanliness Drive**’ from **1 August-14 August 2019**. Multifarious activities were conducted in the school to help the students share the responsibility for maintaining ‘**Clean air and water.**’ Here is a glimpse of the activities done by the students along with their mentors to bring about a positive change.

Class-I ‘My Earth, My Responsibility’

In order to understand the concept of ‘**Reuse**’, students of Class 1 prepared ‘Car Bins’ using old paper bags, which they beautifully decorated with the pictures of flowers, trees, animals etc in their respective classrooms. They were very excited to present it to their parents for using as a trash bins in their cars.



Creative hands at work



Sharing and caring with fun

Class-II Terrarium-Moss Garden

The students of **Class II** prepared a **Terrarium** using plants like aloe vera, snake plant, rosemary, areca palm etc. The kids responded very well to this activity as they engaged themselves in arranging a mini ecosystem in the tiny containers. They cited an example of a responsible stewardship, bringing in the tiny living plants by taking care of them. The kids learned how a terrarium is a wonderful way to combine the worlds of decor and gardening!



Gardening with 'Terrarium Planters'



Terrarium- a mini ecosystem

Class-III Hanging Herbal Garden

“Green revolution is the best solution to arrest pollution.” Planting herb garden is a wonderful way to enjoy the sight, smell and taste of a wide variety of plants. It is a natural remedy to negate toxic effect of air pollution that is affecting our life. To acquire and enjoy the skills of gardening, students of class 3 brought saplings of natural air purifying herbs like bamboo palm, rosemary, snake plant, lavender etc. in an empty coconut shell and participated enthusiastically in plantation drive.



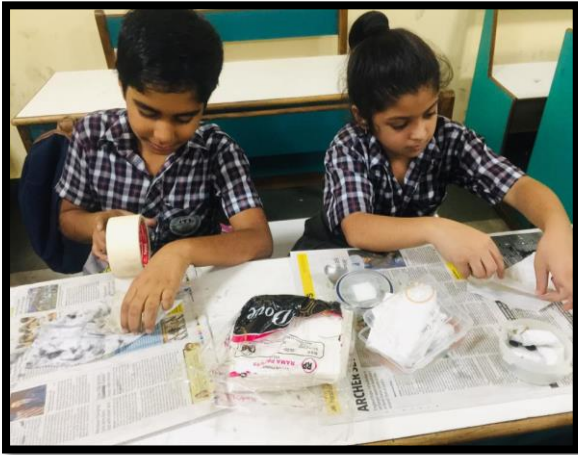
Fun with gardening



Class-IV Air Filter Mask Making

The ill- effects of air pollution imperil human lives. The fact is well documented. Clean breathing matters to health. Increasing public awareness of air pollution and the burden of diseases that it imposes on individuals, families and society is an essential step toward making the changes that will improve public health. The students of **Class IV** participated in '**Air filter mask making**', through which they learned

the skill of preparing inexpensive masks using tissue paper, activated charcoal, wet wipes, rubber strings and masking tapes under the guidance of their teachers.



Making of 'Air-filter Masks'



Engrossed with fun filled learning

Class-V- Nukkad Natak

British poet W. H. Auden once noted, **“Thousands have lived without love, not one without water.”** Students of **Class V** presented a ‘**Nukkad Natak**’ to raise awareness of saving water for our future generations. They emphasized on widespread problem of water pollution which is jeopardizing our health. Through their emphatic presentation, the students displayed plethora of instances through which water is polluted and depicted various significant steps to combat water pollution.



Climate Hawks in action



We bring the change

Class- VI- Extempore Competition

Water pollution is a serious problem in India as almost 70% of its surface resources and a growing percentage of its groundwater reserves are contaminated by biological, toxic, organic and inorganic pollutants. In many cases, these sources have been rendered unsafe for human consumption as well as for other activities such as agricultural and industrial needs. Coupled with it, rising air pollution levels are posing a threat to human existence.

To raise awareness amongst the students about the hazardous effects of water and air pollution, the students of class VI enthusiastically presented their views on water and air pollution, in the form of an extempore competition using suitable props. They also spoke about the environmental policies that are designed to alter the behavior of individuals or groups to protect our environment for future generation.



Class- VII- Air quality mapping

Students of class VII conducted an activity in which they observed the amount of solid particulate matter in different areas of school campus. In this activity, they pasted a filter paper on an A4 size sheet and put a thick Vaseline layer on it. The initial weight of the sheet was measured. The set-up was put in different areas of school campus like bus area, Sanjeevani Vatika, Canteen area etc. After 20 days, the final weight was measured to know about the amount of solid particulate matter deposited on it. A pie chart was made from the collected data.

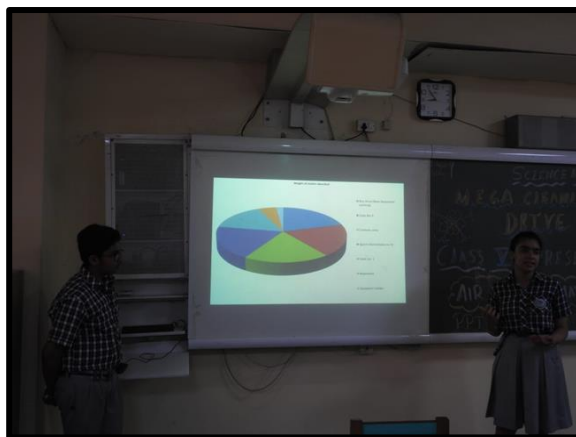
A discussion was held in the class room to reinforce the ways in which students can help to reduce our “Carbon footprint”.



Students weighing the filter paper to determine SPM deposited



Preparing the filter paper



The analysis

Class- VIII- What is your water print?

India is currently facing one of the most serious water crisis. Millions of people do not have access to clean drinking water. There is an urgent need to sensitize students about the need of conserving our water resources.

Members of the Department of Science took up the challenge by making the students aware of ‘**water footprints**’ – the volume of water used to produce various products and services.

The students of **class VIII** were shown a power point presentation, followed by a question-answer session where they put forth their queries. The session concluded with the students taking a pledge to conserve their natural resources to do their bit towards the society.



Climate Hawks in Action



Taking Pledge to conserve our resources



Students enthusiastically participate in Q&A session

Class- IX- AQI Action Plan

After collection of Data, it was now time to contextualize the findings.

The students of class IX presented a report cum action Plan on '**Air Quality Index**' of Delhi. They presented a thought provoking PPT to explain the deteriorating air quality of the nation in general, and Delhi in particular. Students elaborated the various aspects of air pollution and health risks associated with rising AQI. They collected authentic data issued from the government agencies to tabulate these parameters in a graphical manner. The students participated in an interactive session and gave detailed explanation on PM 2.5 and PM 10. They also cited real time stories of hazardous effects and premature deaths in Delhi due to rise in these particulate matter. The young ITLeens presented their innovative action plan to bring down the rising pollution levels.



Students showcasing their 'Action Plan' to combat pollution

Class- X- Gag Show on eight major pollutants

In continuation with the theme of "CLIMATE HAWKS" of the MEGA CLEANLINESS DRIVE observed by the Department of Science, the students of **class X** presented a gag show on the topic "**The Awful Eight**" to generate awareness about the major air and water pollutants. In a humorous and satirical way they sensitized the students about the hazardous effects of the pollutants like oxides of Sulphur and Nitrogen, Arsenic, Cadmium. They explained the role of particulate matter in air pollution and the difference between PM 2.5 and PM 10. They also suggested simple measures that can be adopted by the students to bring about a small but significant step towards preventing environmental degradation. The Coordinators and Teachers appreciated the efforts put by the students.





Students enact the awful eight pollutants of air and water, the students watch keenly

Classes- VII to XII- Anthelia

'Anthelia' - the start-up initiative by ITL Public School, which aims to prepare in house herbal & natural products, entered its fourth year since inception.

This year, too, students of classes VII to XII – created products like **fragranced soaps, vanilla & cinnamon candles, wet wipes, lens cleaner, upholstery cleaner, face cream, face wash, hand wash, face mist** etc to name a few. The highlight of the event were **edible toothpaste & roll on pain reliever**. The USP of all these products was that they were prepared without the use of preservatives and chemicals.

It was ensured that only high grade natural products were being used under expert guidance such as lemon grass, flowers, neem, turmeric etc. All these were procured from the school herbal garden – **'SANJEEVANI VATIKA'**.

The selected products will be tested on various parameters and launched in **Skill Bazaar**.





Student Entrepreneurs at Work

Tree Plantation By The Students of Environmental Club

The students of Environment Club Anthelia along with volunteers from **classes IX-XII** participated in a tree plantation activity on Tuesday, 13 August. They planted around 60 saplings of seasonal fruits and shrubs within the school herb garden “**Sanjeevani Vatika**” and nearby society ground. They employed the Matka Irrigation technique as a step towards water conservation. This method has also been stressed upon by Prime Minister Shri Narendra Modi.

Matka or Pitcher Irrigation is an inexpensive small-scale irrigation method practiced in the semi-arid states of India. The system consists of burying unglazed clay pots in the soil up to their neck. When the pot is filled with water, the natural pores in the pot's walls allow water to spread laterally in the soil, creating the

moist conditions necessary for plant growth. Pitchers are filled as needed, maintaining a continuous supply of water directly to the plant root zone.

The students were also sensitized towards the falling ground water levels the role of water harvesting and the need to conserve water through this activity.

Teachers, office staff and the Coordinators also enthusiastically participated in this activity.

