



Diya Academy of Learning

Bringing Education and Values Together





Eons ago God created planet Earth to provide a safe haven for all living things. A place where different kinds of living things could harmoniously coexist with each other. Mother Earth had the capacity to sustain and nourish all living beings which inhabited it. However, the irresponsible actions of human beings have stripped mother Earth of its former glory and transformed it into a planet which is on the verge of a catastrophic disaster.



In order to save our planet The United Nations proposed the Sustainable Development Goals. The SDG which was formulated in 2015 is the blueprint to achieve a better and more sustainable future for all. They address the global challenges we face including poverty, inequality, climate change, environmental degradation, peace and justice.



This year the theme of our Annual Event - Synergy was SDG. Our students worked on 7 SDG goals namely - Health and Well Being, Zero Hunger, Life on Land, Life Under Water, Climate Action, Clean water and Sanitation, Sustainable cities and communities and tried to spread awareness through models, cultural shows and interactive games





Journey of Human Civilization



Our Pre-Primary students exhibited the different stages of Human Civilization- Pre-Agricultural Stage, Agricultural Stage and Industrial Stage. Prehistoric hunter-gatherers often lived in groups consisting of several family units. They developed tools to help them survive and were dependent on the abundance of food available in the area. Their presentation gave an insight into the lifestyle of early humans, their tools, weapons, clothing and housing.

The next room showed how by establishing domesticity, families and larger groups were able to build communities and evolve from a nomadic hunter-gatherer lifestyle dependent on foraging and hunting for survival.



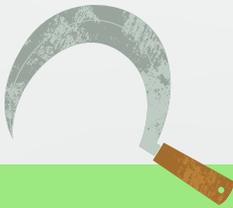
The presentation on Industrial stage gave an insight about early discoveries and eventually to the contemporary innovations. There were glimpses of clothing, industries, technologies from the beginning of modern era till date. There was also a display of some images of our planet and its transformation till date.

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Life of a Farmer



A flourishing life on land is the foundation for our life on this planet. We are all part of the planet's ecosystem and we have caused severe damage to it through deforestation, loss of natural habitats and land degradation. Promoting a sustainable use of our ecosystems and preserving biodiversity is not a cause. It is the key to our own survival.

Our students showcased various working models to display different methods of farming, alternative practices, different types of irrigation, Checking fertility of soil and how to make it more fertile.

The cultural shows depicted the dire need of conservation of soil and afforestation to make the Earth fertile again.



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Good Health and WellBeing

SDG goal 3 deals with ensuring healthy lives and promoting well-being for all at all ages.

Our students presented a skit on cleanliness which stressed on the need of keeping our surroundings clean, maintaining hygiene in public places, avoiding the use of plastic bags and adopting healthy practices.

A proper in patient hospital simulation was made by our students who did a roleplay as different types of doctors and healthcare professionals. The parents too were allowed to play the role of patients. The simulation was so proper that it had a hospital head, registration desk, checking the vitals. The student doctors had various areas of speciality like General Physician, Orthopedician, Dietician, Dermatologist, Ophthalmologist and a Technical head to give prescription and feedback.

Apart from roleplaying, the students also explained the importance of clean drinking water and the right amount of water to be taken on a daily basis, and how to differentiate junk food from healthy food. They even recommended other features of well being such as practising yoga asanas and being safe on roads .

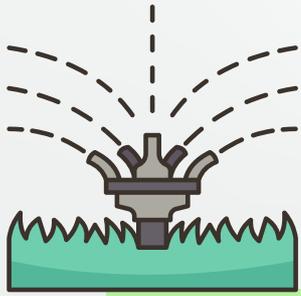
The highlight was that they brought in awareness on mental health which is a neglected area even now. They had a game zone with BeeBot.

Our students displayed a still model on a food pyramid. They described the pros and cons of boiled and fried food with a potato. They explained the different types of food and their benefits. They differentiated on energy giving foods, body building foods, protective food and so on. They explained about various diets like intermittent fasting and keto diets. They also stringently explained the harmful effects of junk food with the products available in the market.



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Life on Land

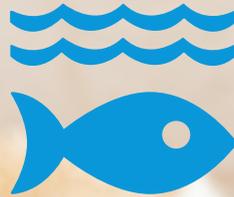


Life on land is one of the SDG goals formulated by the UN with the aim of protecting the land and its biodiversity from various harms caused by human intervention. Every minute 23 hectares of arable land are lost to drought and desertification. The world is losing its biodiversity at an alarming rate, pushing 22% of animals to the brink of extinction. These are the major challenges faced by life on land. Our students depicted the beauty of land through different models and spoke about Soil profile, Different types of irrigation, latest methods of farming. They also stressed on the need of afforestation. The exhibit on anti-poaching collar showed how technology can be incorporated to prevent poaching.



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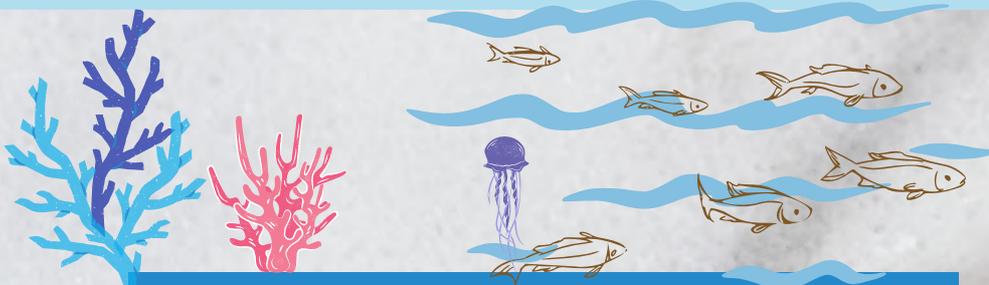
Life Below Water



Healthy Oceans and seas are essential to our existence. They cover 71% of our planet and we rely on them for food, energy and water. Yet, we have managed to do tremendous damage to these precious resources.

Our students displayed different models on Coral Destruction, Ocean acidification, Oil leakage, Marine Pollution, Bio Magnification to spread awareness about the damage done to the marine resources.

The models helped to spread the message of reducing marine pollution, protecting and restoring marine ecosystems and sustainable fishing.



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Zero Hunger



The Zero Hunger SDG focuses on finding sustainable solutions to put an end to world hunger. A profound change of the global food and agricultural system is needed if we are to nourish today's 815 million hungry people. A world with zero hunger can positively impact our economies, health, education, equality and social development.

Our students came up with workable solutions to tackle shortage of water in agricultural practices like Rainwater harvesting, Sprinkler Irrigation etc.

They enlightened the audience with nutritional facts of different types of food.

They spread awareness about Food Banks which can play a considerable role in feeding the hungry people. A mime depicting the pitiable condition of those people who have no access to food.

There was a Dance Drama which spread awareness about the importance of saving each drop of water.

It showed the callous attitude of man while using water in his/her own daily life in rural and urban areas. It urged people to use water judiciously as it is a very precious resource which is very hard to be replenished.



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Clean Water and Sanitation

Access to clean water and sanitation as well as sustainable management of water resources are crucial for maximising economic productivity and yielding large returns on current investments in health and education.

Goal 6 of the Sustainable Development Agenda addresses the quality and sustainability of water resources, which are essential to human and environmental existence, in addition to drinking water, sanitation, and hygiene.

Our students, with their static models elucidated the struggles the planet earth is going through.

They prepared a static model of Sources of Clean Water. Also, a PowerPoint presentation showing world wide drinking water availability.

The working models unravelled the ways to overcome these problems. The model of STP showed how waste water could be treated in cities to make it available for cleaning and gardening purposes.

The Village Soak Pit demonstrated how waste water can be treated in the villages to make it usable for watering plants and cleaning purposes. The soak pit uses layers of big and small rocks, a filter cloth, charcoal and sand.

The Bio-Toilet model presented a novel concept for treating human waste. The bio-digester technology uses Psychrophile, a type of anaerobic bacteria. With an ability to survive in cold temperatures (up to -55 degree Celsius), this bacterium is used extensively in the technology. This bacterium helps in degrading human faecal waste in an eco-friendly manner.



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Climate Action

Goal 13 calls for urgent action to combat climate change and its impacts. It is intrinsically linked to all 16 of the other Goals of the 2030 Agenda for Sustainable Development.

Our students made static models portraying the problems of global warming and the present condition of water bodies. The working models showed the solutions to reduce global warming and ways to keep water bodies clean.

They prepared a model of Rain Water Harvesting, which showed ways to conserve water by storing rain water and filtering and using it. The second model, a Free Energy Generator, used the principles of magnetism. These models showed how alternative energy sources can be utilised to reduce carbon emissions.

Through a working model of Smart Dustbin, our students explained how city parks and other public places can be kept clean using technology. The smart dustbin uses an arduino board that detects an object when it comes within a radius of 20 metres and opens the lid for people to throw the waste. It beeps when the bin is full.

With a model of River Cleaning Boat, they educated the visitors on how water bodies like rivers can be kept clean. This boat picks up dry waste from the surface of the water.

Protection of meiofauna - Another technological creation, which detects coral reefs and meiofauna from a distance and sends timely signals to the boat to change course so that the meiofauna is not damaged.



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Sustainable Cities and Communities

Goal 11 of SDG talks about making cities and human settlements inclusive, safe, resilient and sustainable.

Our students prepared innovative models and displayed how solar energy can be tapped and used effectively on a day to day basis for different purposes like street lights, household appliances, etc.

They displayed models of smart homes which were a part of sustainable cities which would help in preserving and protecting our environment and reduce the adverse effect of natural disasters .

They also showcased models of a city that uses information and communication technology and the internet to address urban challenges such as transport, sanitation, water distribution, health and governance.

Roadside gardens, nurseries and lawns at administrative areas were part of the smart cities and used smart irrigation concepts to irrigate the plants. Students displayed a model which monitors soil conditions and an automatic water usage for plants which adjusts according to the scheduling.

This is a one time investment project and effective especially for smart cities. The focused advantages are that it saves water through precise control over the flow , allows for remote monitoring and management of irrigation systems with the Internet of Things (IoT), increases yield with increased precision and control, reduces water usage by up to 60% and is appropriate for small residential landscapes as well as large managed landscapes.

Students also presented a model which highlighted the potential of harnessing tidal energy in a befitting way.

In some locations, tidal energy can be used in place of burning fossil fuels like coal and oil, which contribute to global warming. Tidal generators (or turbines) function similarly to wind turbines, although they are powered by ocean currents rather than wind.



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Cultural Programs



Diya Academy of learning organised multiple cultural events to promote SDG. Students of 6 and 7 performed SDG Anthem to make people aware about the Sustainable Development Goals. Grade 1 and 2 performed Skit on Swachh Bharat Abhiyan to stress on the importance of cleanliness. Grade 5 students enthusiastically performed a mime on Zero Hunger to urge people not to waste food, save and share food for the needy so that everyone gets food. Students also performed a Dance of Life, depicting nature - from its evolution to destruction through deforestation and natural calamity. This performance was intended to spread awareness among the people regarding the issues and important of Nature. Grade 6 and 7 performed an amazing dance highlighting the Water issues in Life and how important each drop of water is in everyone's life. The cultural event ended with a mesmerizing Nukkad Natak highlighting the importance of Sustainable Cities.



Assorted games were conducted to assess the learning of parents. For this purpose, two rooms were dedicated. Honey Bee City Spin Roll, Quizix, Planet Saver were few of the many games planned, which were a hit among the parents and the students alike.

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Lets Pledge

For a better tomorrow...

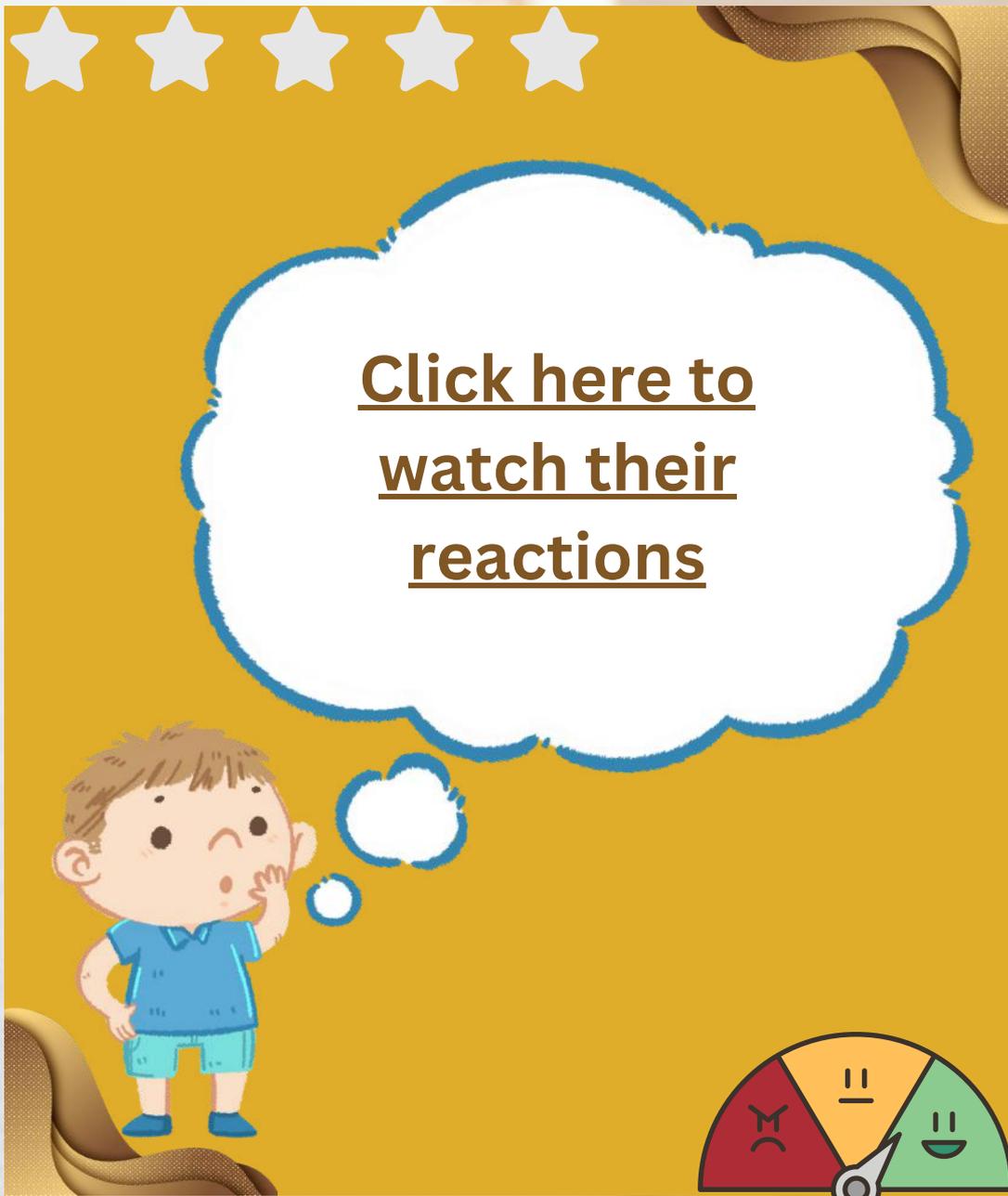


- For good health and well being,
 - Lets have a balanced and nutritional diet
 - Lets devote 30 minutes every day on our well being (walk, yoga, exercise)
- To save climate, land and water,
 - Reduce pollution
 - Use renewable resources, plant trees
 - Protect and preserve ecosystem
 - Support rain water harvesting
- To achieve zero hunger,
 - Reduce food wastage
 - For excess food contact food banks
 - Support local farmers
- For clean water and sanitation,
 - Maintain proper hygiene
 - Proper disposal of sanitary waste
 - Use organic sanitary products
- For sustainable cities and communities,
 - Save electricity
 - Use public transport and battery operated vehicles
 - Adopt terrace gardening



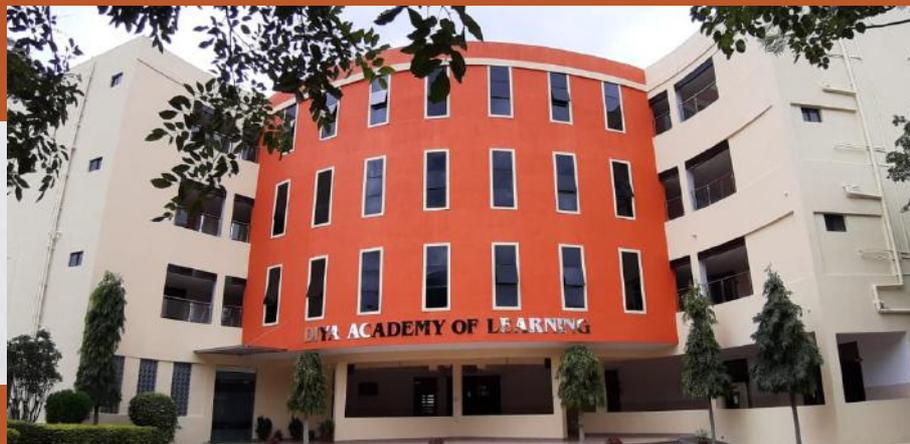
Visitor's Reactions

Let's hear from them...





The school's annual fest makes student more confident, creative, future ready and learners for life. It has also been a pleasure to have amongst us parents from pre-primary through grade 10, esteemed principals from the best institutions of Bangalore and also members of the management. Inspired, encouraged and motivated Diya Students cannot wait to return with zeal and a new theme for the upcoming events .



Diya Academy of Learning

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