

# World Earth Week 2021

*A blog written by the students of IBDP – Batch of 2022*

## WHAT IS EARTH DAY?

*Earth Day is an annual event on April 22 to demonstrate support for environmental protection. First held on April 22, 1970, it now includes a wide range of events coordinated globally by 1 billion people in more than 193 countries.*



## GLOBAL YOUTH SUMMIT

*Earth Day 2021 begins with a global youth climate summit led by Earth Uprising, in collaboration with My Future My Voice, OneMillionOfUs and hundreds of youth climate activists. The summit begins at 2:30 PM Eastern Time on April 20. The global youth summit will consist of panels, speeches, discussions, and special messages with today's youth climate activists including Greta Thunberg, Alexandria Villaseñor, and Licypriya Kangujam.*

## IMPORTANCE OF WORLD EARTH DAY

*Since 1970 a third of the natural world has been destroyed by human activity. Almost two-thirds are degraded by human activity, Yet, since 1970, more than 3 billion people have graduated high school with little to no formal and assessed climate curriculum. These and future generations stand to inherit a world extremely impacted by environmental degradation while lacking the education and civic engagement skills needed to help solve these universal challenges. Thus Earthday.org started an education revolution to save the planet. This formal campaign, launched Summer 2020, is combining grassroots support and on the ground efforts by students, educators, and non-profits*



*with national level commitments from Ministries of Education and Environment. This Climate and Environmental Literacy Campaign will ensure that students across the world benefit from high-quality education to develop into informed and engaged environmental stewards.*

## SAVING OUR ENVIRONMENT

The ways in which we can save the environment is by - reduction of waste generating ( Don't be wasteful. Reduce garbage ), Reuse of products and parts and Recycle resources. Other ways to save the environment is by conserving water, this helps the environment as less water is wasted and therefore more water is saved for further use, by planting more and more trees it will help the environment as trees provide food and oxygen, they help save energy, clean the air, and help combat climate change.

# Earth Day



## THEME FOR EARTH DAY 2021

Earth Day 2021's theme - 'Restore Our Earth' highlights the natural processes, emerging green technologies and innovative thinking that can restore the world's ecosystems. Alongside climate mitigation and adaptation, restoration is essential to removing and storing excess carbon from the atmosphere. The Earth can be made into a sustainable and better place, for us humans as well as other species, to live in through five pillars:

- Canopy Project
- Food and Environment
- Climate Literacy
- Global Earth Challenge
- Great Global Cleanup.

## WRITERS:



**Yuvraj Dhorda**



**Nnisarg Gada**

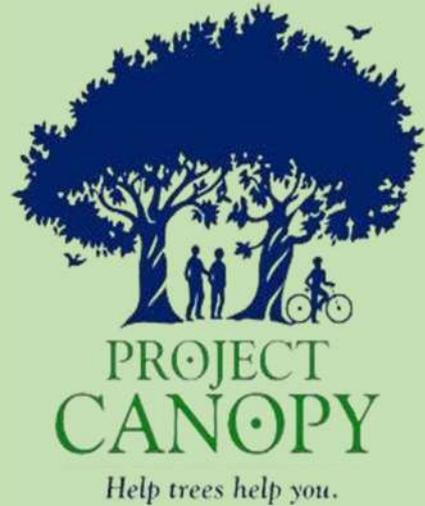


**Atharv Redkar**

# Canopy Project

*Canopy Project is a social campaign to bring awareness to deforestation issues. Canopy is the above ground portion of a plant community that is formed by the collection of individual plant crowns. According to forest ecology canopy refers to the upper layer or habitat zone which is formed by mature tree crowns.*

*Earth Day Network's 'The Canopy Project' has one major goal: to plant 7.8 billion trees by 2020; that's one for every person on the planet. Each dollar donated plants a tree. Through this campaign in 2017, in which I had the honour to participate, we planted 1.2 billion trees, which is the biggest number reached since EDN started the fundraiser in 2014. Earth Day Network's Canopy Project plants trees that help the world's impoverished communities sustain themselves and their local economies. I believe that people feel some kind of satisfaction when they can visualize their progress graphically, the main concept for my proposal was to make the personal process as visual as possible, to motivate more people to donate money for the cause.*



*Responsible reforestation programs can stabilize land from erosion or natural disasters, improve soil health and groundwater recharge, promote native and endemic fauna, and provide economic development for nearby communities.*



*The conditions of the canopy are very different from the conditions of the forest floor. During the day, the canopy is drier and hotter than other parts of the forest, and the plants and animals that live there are specially adapted for life in the trees. For example, because the amount of leaves in the canopy can make it difficult to see more than a few feet, many canopy animals rely on loud calls or lyrical songs for communication. Gaps between trees mean that some canopy animals fly, glide, or jump to move about in the treetops.*

*Since the beginning of the 20th century, the world's forests have lost about 20% of their coverage. According to the United Nations' Food and Agriculture Organization, about 7.3 million hectares (18 million acres) of forest are lost every year, and roughly half of Earth's tropical forests have already been cleared.*

*The canopy layer provides protection from strong winds and storms, while also intercepting sunlight and precipitation, leading to a relatively sparsely vegetated understory layer. Moreover, forest canopies are home to unique flora and fauna not found in other layers of forests, and are thus extremely important to protect them.*

## WRITERS:



***Manthan Gaonkar***



***Kiran Doshi***



***Digen Patel***

# Food and Environment



*For many years the wildlife was the main part of the world's history: its landscape was dominated by forests, grasslands, and shrubbery. This has changed dramatically over the last few centuries: wild habitats have been squashed by turning them into farmland. We see today the breakdown of the world territory on the visualization. 10% are covered by glaciers around the world, while another 19% are stony land – deserts, dry salt flats, beaches, dunes, and exposed rocks. It leaves what we call "living ground." For agriculture, half of all habitable land is used.*

*When it comes to food, there is a large quantity of food that is wasted each day and simply just thrown away. We can make sure that we make food in small portions and if still left we can make a variation and eat it as our meal, or we can provide the leftover food to animals such as cows, street dogs, crows, etc. Also, we can make fertilizer out of the leftover food which will help to improve the quality of the soil.*

*We can also use biodegradable eco-friendly stationery products. Such as a pencil that contains edible colors and is chemical-free in the body of the pencil, so it is safe for children to use it as well. After usage, you can plant the pencil, pen as per the instructions in the product packaging. The pencils contain seeds at the back of the pencil or pen so that one can grow a plant at home or neighborhood after using the stationery product.*



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*One can also use rechargeable batteries. As batteries remain complicated to recycle and contain a significant number of dangerous metals such as lead, prefer the use of rechargeable batteries. The latter will cost a bit more when you get them, but in the long run, you will protect the environment while saving some cash.*



*One of the best example of recycled products is eco-bricks. An eco-brick is a plastic bottle packed with used plastic to a set density. They serve as reusable building blocks. Eco bricks can be used to produce various items, including furniture, garden walls, and other structures. The plastic in eco-bricks is very durable and will never break down, making it an ideal building material. They're used in developing countries to construct furniture and even buildings, and they're also used in the UK to build children's playgrounds.*

*We are individuals who are responsible for our environment and food. We as individuals can make changes and take action and steps toward a healthy and clean environment.*

## WRITERS:



**Diya Gandhi**

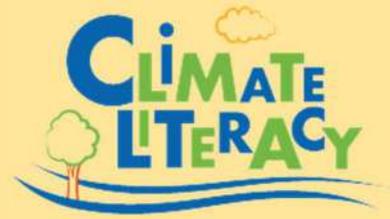


**Simran Pattni**



**Veid Raut**

# Climate Literacy



## WHAT IS CLIMATE LITERACY?

Climate Literacy is an understanding of your influence on climate and climate's influence on you and society. A climate-literate person:

- understands the quintessential principles of Earth's climate system,
- grasps how to assess scientifically credible knowledge about climate,
- communicates about climate and climate change in a meaningful way, and
- can make educated and responsible decisions concerning actions that may affect climate.

When combined with civic education, climate and environmental literacy, it will create jobs, build a green consumer market and allow citizens to engage with their governments in a meaningful way to solve climate change.

## WHAT ARE THE EFFECTS OF CLIMATE CHANGE?

Climate change destabilizes the Earth's temperature equilibrium and has far-reaching effects on human beings and the environment. During global warming, the energy balance and the temperature of the earth change due to the increased concentration of greenhouse gases, which, as a result, significantly impacts humans and the environment.

## WHY IS IT IMPORTANT?

Education is a crucial part of the global response to climate change. It helps people recognize and address global warming, increasing "climate literacy" among youngsters. Moreover, it encourages changes in their attitudes and behaviour and helps them adapt to climate change-related trends. Education and awareness-raising enable informed decision-making, thus playing an essential role in increasing adaptation and mitigation capacities of communities and empower women and men to adopt sustainable lifestyles.

## CONCLUSION

By conceptualizing climate change as fundamentally a human health issue, a climate and health literacy approach can help empower and motivate young people to address this existential threat from a health-protective standpoint.

## WRITERS:



*Lipi Bhansali*



*Siddhi Nagwekar*



*Pooja Valotia*

# The Global Earth Challenge

## WHAT IS GLOBAL EARTH CHALLENGE?

*In citizen science, public volunteers contribute to scientific research. Global Earth Challenge seeks to become the world's largest coordinated citizen science campaign by developing a new mobile application for data collection, and a platform for global citizen science data.*



*Through the mobile app, Global Earth Challenge empowers people around the world to monitor threats to environmental and human health in their communities. After sharing data, people can take action to drive policy change. A new open data platform will make it easier for researchers around the world to find and access high-quality information and use citizen science data for international policy assessments like the U.N. Sustainable Development Goals (SDGs).*

*Global Earth Challenge is a global partnership coordinated by EARTHDAY.ORG, the Wilson Center, and the U.S. Department of State.*

## GOAL 1

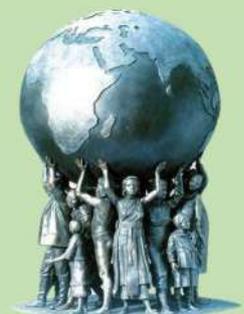
*Increase the amount of open and findable, accessible, interoperable, and reusable (FAIR) citizen science data to help researchers and policymakers understand how the environment is changing.*

*Through a public call to action, the Global Earth Challenge mobile app empowers volunteers to contribute directly to research. We are collaborating with members of the research community on a number of data collection widgets. Data from the app, along with data from other citizen science projects, will be accessible through a new open data platform, the Citizen Science Cloud.*



## GOAL 2

*Empower people around the world to act on their knowledge to build safer, healthier communities. In addition to open data, Global Earth Challenge will share maps of what people are finding around the world. The project will also publish educational resources such as lesson plans and “What You Can Do” materials to support citizen advocates. These resources will make citizen science accessible and meaningful, linking participation in scientific research to education and action.*



## WRITERS:



**Vansh Patel**



**Juhi Purohit**



**Alysa Gupta**

# The Great Global Clean-up

## WHAT IS THE GREAT GLOBAL CLEAN-UP?

*The Great Global Clean-Up is a mission with the objective to eliminate a billion bits of garbage from parks, seashores, urban areas, streams, our areas — any place squander is found. The tidy-up means to lessen waste and plastic contamination, improve natural surroundings, and forestall mischief to untamed life and people. Gathering one billion bits of trash requires an aggregate exertion.*



## WHY SHOULD WE ACT NOW?

*Trash in the climate — particularly plastic — can have genuine natural outcomes. A couple of years prior, an ocean turtle with a plastic straw stuck in its nose turned into an image of the mischief plastics can do to natural life. In any case, the effects of unmanaged squander are regularly not so much noticeable but rather more extreme, with unpalatable plastic pieces filling creatures' stomachs. Microplastics can work their way from sea trash gyres into the natural way of life, ultimately gambling human wellbeing just as untamed life.*

## IMPORTANCE OF WORLD CLEAN-UP DAY:

*World Clean-up Day is a strong chance to draw in and assemble individuals. The effortlessness of getting individuals to tell the truth zones that they travel as the day progressed, with their neighbours and family, is incredible and energizing. While we habitually lose individuals' consideration when we talk about more perplexing answers for strong waste administration, similar individuals will in general appreciate putting a few hours feeling that they are accomplishing something incredible for their networks.*



## CONCLUSION:

*In conclusion, World Clean-up Day intends to bring issues to light of the botched waste emergency by assembling all circles of society to take part in clean-up activities. People, governments, enterprises and associations are totally urged to partake in clean-ups and to discover answers for tackle botched waste. Let us all lead ourselves and the earth to a more cleaner, sustainable and brighter future for the upcoming generation!*

## WRITERS:



**Sarah Kadu**



**Divyeshh Chavan**



**Prem Minawala**