

English ASL Project

Call to Action for Future Leaders

(SDG 13 - Climate Action)



*Be the agents
of change you
wish to bring
about in the
world.*



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Class: XII – A _____

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School: Sacred Heart Sr. Sec.
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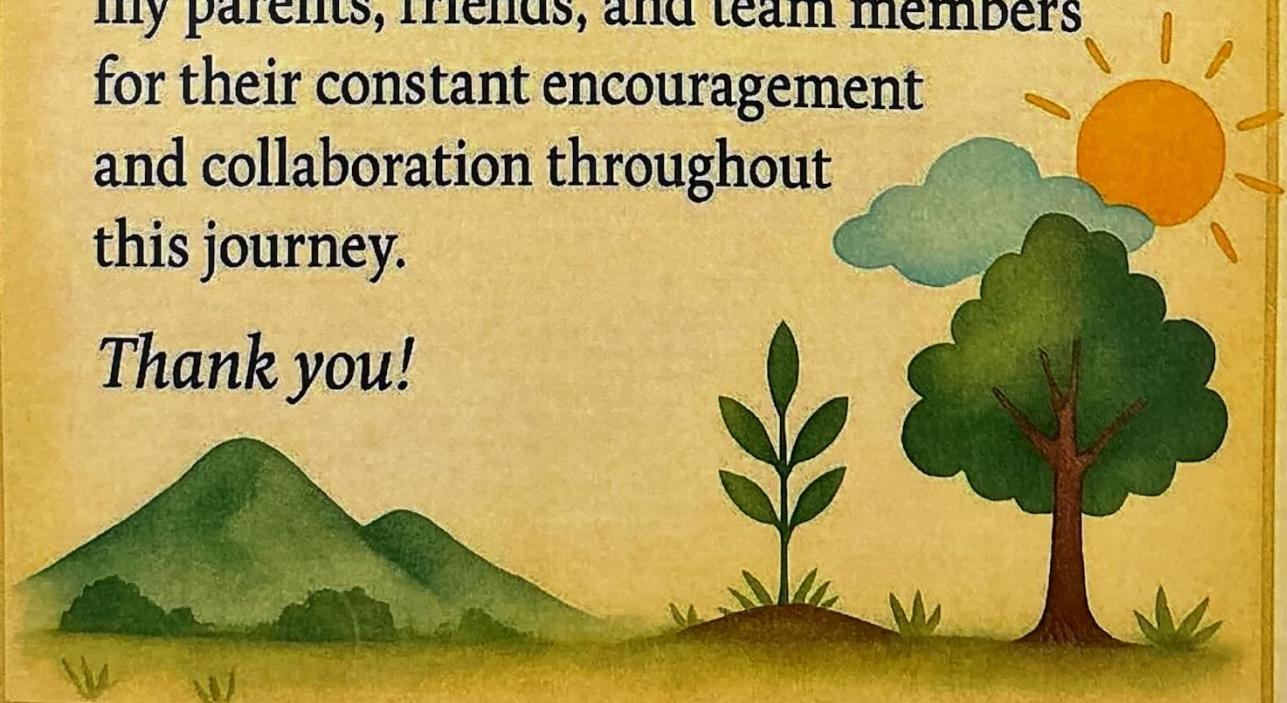


Acknowledgement

I, Keshika Verma, would like to express my sincere appreciation to everyone who has contributed to the successful completion of this project. My heartfelt gratitude goes to my English teacher, Ms. Sapna Maini, for her expert guidance and unwavering support, which significantly aided the progress of this work.

I am also deeply grateful to our principal for granting me the opportunity to undertake this project. Finally, I extend my thanks to my parents, friends, and team members for their constant encouragement and collaboration throughout this journey.

Thank you!



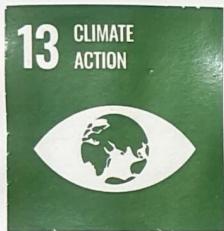
Certificate

This is to certify that the project work entitled *Call to Action for Future Leaders* is authentic work carried out under my supervision as part of the CBSE curriculum of class XII English and that it is as per the guidelines issued by the CBSE.

To the best of my knowledge, the project is original and a bonafide work undertaken by Keshika Verma of class XII, Section A of Sacred Heart Senior Secondary School, Sector-26, Chandigarh.

Name of the English Teacher: Ms. Sapna Maini

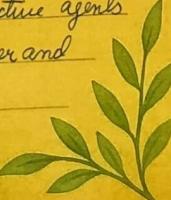
Signature of the Teacher: _____



Objective of the Project



The objective of this project is to understand the causes, effects, and growing urgency of the climate crisis. It aims to promote awareness among youth and inspire them to take active steps in protecting the planet. By analyzing five relevant statistical updates, the project reflects the scale of the problem and emphasizes the need for global action. Aligned with SDG-13 Climate Action, it focuses on solutions and strategies that can accelerate progress towards a sustainable future. It empowers students like me to not only understand the problem, but to become proactive agents of change in building a greener and more resilient future.





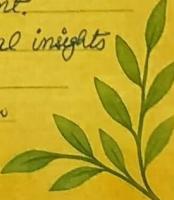
Action Plan



To complete this project on Climate Action, the following steps were planned and executed in a structured manner.

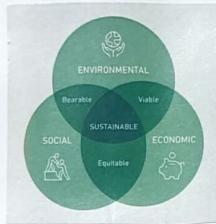
1. Understood the concept of climate change and sustainability.
2. Researched the causes and effects of climate change.
3. Collected five recent statistical updates from reliable sources.
4. Explored global and Indian strategies to fight Climate Change.
5. Analyzed the role of youth in climate action.
6. Drafted the project report using Internet research and NCERT content.
7. Concluded with personal insights and reflections.

This is the action plan.





Project Report



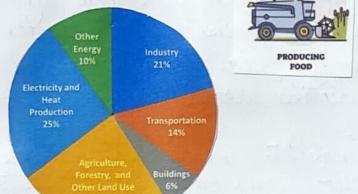
What is Climate Change and Sustainability?

Climate change refers to long term shifts in temperature and weather patterns, mostly caused by human activities like burning fossil fuels and deforestation. These actions release greenhouse gases into the atmosphere, leading to rising global temperatures, melting ice caps, and unpredictable weather events across the globe.

Sustainability means meeting our present needs without compromising the ability of future generations to meet their own needs. It involves using natural resources wisely, reducing waste and protecting the environment through long term, balanced practices.

Together, climate change and sustainability are interconnected. Fighting climate requires adopting sustainable habits, promoting renewable energy, conserving ecosystems, and educating people to become responsible and climate-conscious citizens.





Global Greenhouse gas emissions
by Sector.



Causes of Climate Change

Climate change is mainly driven by human activities that release greenhouse gases into the atmosphere. These gases trap heat and disturb Earth's natural climate balance. The major causes include :-

1. Burning of fossil fuels & vehicles, factories and power plants burn coal, oil and gas, releasing carbon dioxide and other greenhouse gases.
 2. Deforestation & cutting down forests reduces the planet's ability to absorb carbon dioxide, increasing the amount of carbon dioxide in the air.
 3. Industrial activities : Factories produce heat-trapping emissions and large-scale pollution that damage both land and air quality.
 4. Agriculture & livestock : Cattle release methane gas ; excessive fertilizer use releases nitrous oxide, both of which harm the planet by warming it.
 5. Waste generation : Garbage dumped in landfills releases harmful gases like methane that also warm the planet, harm it and cause climate change on the planet.
- These are the main causes of climate change.



Effects of Climate Change



A WARMING, RISING OCEAN



Canadian Wildfires, 2023



HOTTER TEMPERATURES



MORE SEVERE STORMS



INCREASED DROUGHT

Effects of Climate Change

Climate change is already having serious effects on the planet, its ecosystems, and the lives of people everywhere.

These impacts are becoming more intense and frequent, affecting every part of our life. Some major effects include:

1) Rising Temperatures: Global average temperatures have steadily increased due to greenhouse gas emissions. This rise in temperature has led to deadly heatwaves, especially in regions like Europe, Asia & Africa.

2) Melting ice and rising sea levels: Glaciers, Arctic sea ice, and polar ice caps are melting at alarming rates. This causes sea levels to rise, which increases the risk of flooding in low-lying and coastal cities.

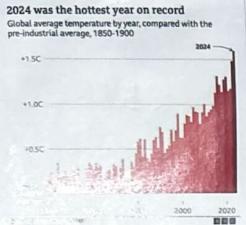
3) Extreme Weather Events: Climate change is making extreme weather events more powerful & more frequent.

4) Loss of Biodiversity: Many plant and animal species are struggling to survive and their habitats are changing or disappearing.

5) Impact on Human Life: Climate change is not just an environmental issue, it directly affects lives. Millions are being displaced because of floods, storms and rising sea levels.



1)



2)



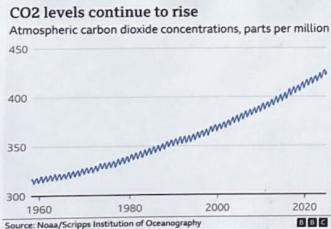
Melting Arctic Ice due to global warming.

4)



Example of natural disaster: Peru Floods.

3)



Rise in CO₂ levels

5)



Floods displace hundreds as communities struggle to find safety and shelter.



Five Recent Statistical Updates

The five most recent climate change statistical updates are:-

1. 2024 was the hottest year ever recorded on Earth. Global temperatures rose over 1.5°C above pre-industrial levels for the first time, crossing a critical threshold. This led to intense heatwaves, droughts, and disruptions in eco-systems worldwide.

2. Arctic sea ice hits its sixth lowest level in history. In September 2024, sea ice shrank to 4.2 million Km². The continued melting speeds up warming and threatens polar wildlife and global weather stability.

3. Global CO₂ levels reached 421 ppm in 2024. This is the highest level in over 80,000 years. Rising CO₂ is the main driver of climate change and global warming and shows how far off track we are from meeting climate goals.

4. Over 350 climate-related disasters occurred globally in 2023.

Floods, storms and wildfires affected more than 80 million people. These events are becoming more frequent and severe due to rising temperatures.

5. In 2023, climate change displaced 26.3 million people globally.

Millions were forced to flee their homes due to extreme weather conditions, and weather events. Climate displacement is now a major global humanitarian issue.

These were the most recent

five statistical updates

about climate

change.





Floods in Himachal Pradesh



Severe drought in Africa



Impact on India and the World

Climate change is a global problem, but its effects vary from region to region. Both India and the world have faced severe consequences in recent years due to rising temperatures, extreme weather, and environmental disruptions.

Impact on India :-

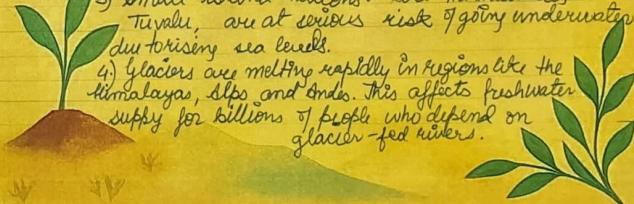
- 1) Frequent floods in Assam, Bihar, and Himachal have displaced thousands.
- 2) Heatwaves are becoming more intense and common in northern India.
- 3) Droughts in Maharashtra and Rajasthan are affecting food security.
- 4) Rising sea levels threaten low-lying cities like Mumbai and Chennai.

Impact on the World :-

- 1) Wildfires in Canada, Australia, and Greece have destroyed vast areas of forest, releasing massive amounts of carbon dioxide and threatening wildlife.
- 2) Droughts in Africa and South America: These are becoming more frequent and severe, putting stress on agriculture and reducing access to clean water.

- 3) Small island nations like the Maldives and Tuvalu are at serious risk of going underwater due to rising sea levels.

- 4) Glaciers are melting rapidly in regions like the Himalayas, Alps, and Andes. This affects freshwater supply for billions of people who depend on glacier-fed rivers.





Chandrapur Park in Gujarat, India: One of the largest solar power plants in the world. Harnessing clean energy.



World leaders at the 2015 Paris Climate conference where the historic Paris Agreement was adopted.



Eco-friendly transport options help reduce pollution and carbon emissions.



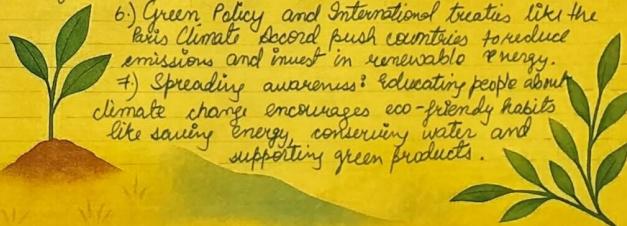
Sustainable Agriculture



Solutions and Strategies for Climate Action

Tackling climate change requires global cooperation and strong action at every level - governments, businesses, and individuals. Some effective strategies that can reduce its impact include:-

- 1) Transition to Renewable Energy: Using solar, wind and hydro power reduces carbon emissions.
- 2) Afforestation & Reforestation: Planting trees helps absorb carbon dioxide from the atmosphere.
- 3) Sustainable farming practices: Eco-friendly agriculture reduces soil erosion and methane emissions.
- 4) Better waste management & Recycling: Reducing plastic use helps protect land, rivers and oceans from pollution. Managing waste properly also cuts methane emissions from landfills and reduces harm to wildlife.
- 5) Climate friendly transportation: Using electric vehicles, bicycles, and public transport reduces air pollution and lowers greenhouse gas emissions.
- 6) Green Policy and International treaties like the Paris Climate Accord push countries to reduce emissions and invest in renewable energy.
- 7) Spreading awareness: Educating people about climate change encourages eco-friendly habits like saving energy, conserving water and supporting green products.





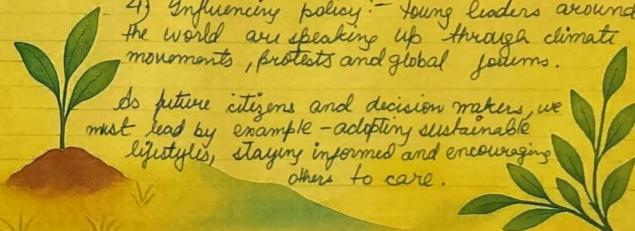
Youth can lead Climate Action



Role of Youth and Future Leaders

Youth play a powerful role in addressing climate change and leading the world towards a more sustainable future. With their energy, creativity, and awareness, young people can become changemakers at both local and global levels.

- 1) Spreading awareness:- students can educate others through social media, rallies and events.
- 2) Taking green actions:- Using public transport, planting trees, and reducing plastic usage are small steps that make a big difference.
- 3) Innovation and leadership:- youth led startups, campaigns and eco clubs promote bold solutions.
- 4) Influencing policy:- Young leaders around the world are speaking up through climate movements, protests and global forums.
As future citizens and decision makers we must lead by example - adopting sustainable lifestyles, staying informed and encouraging others to care.



It is our duty to create a cleaner, greener future. By taking personal actions today, we can slow down climate change and protect our planet for generations to come. Every small effort - planting a tree, saving energy or spreading awareness bring us one step closer to a healthier Earth.



- ⇒ Me (Keshika Verma) planting trees at our school while leading a plantation drive as the Peer Educator.
- ⇒ My Step towards a greener Earth - because change begins with us.
- ⇒ In the picture : Keshika Verma (me), Ms. Sapna Maini (English teacher and school coordinator at that time), Sakshi Gupta (School counselor) and Sister.

Reflections

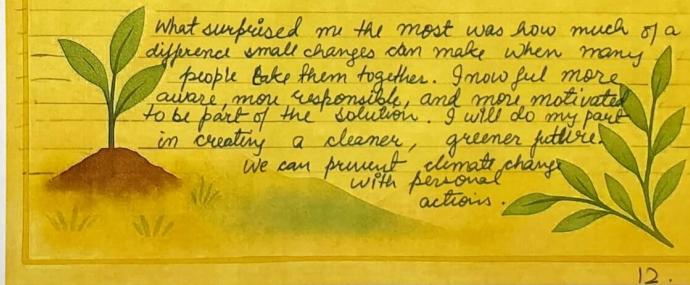
This project helped me understand the seriousness of climate change on a much deeper level. I had heard about it before through news and school lessons, but while working on this project, I truly realized how severely it is affecting our planet, people's lives, and our collective future.

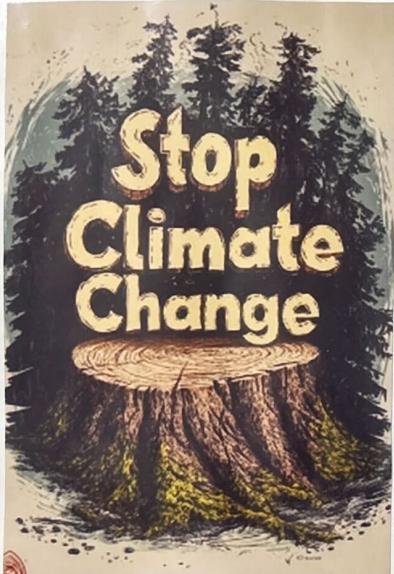
As I researched, I came across many facts and statistics that were honestly shocking - like how fast global temperatures are rising, how quickly glaciers are melting, and how millions of people are already being displaced due to climate related disasters. These are not distant problems anymore; they're happening right now, and they impact all of us.

I also began to understand that sustainability is not just a big concept or trendy word - it's something we need to live by everyday. The choices we make, even the small ones, matter. This made me reflect on my own habits. I've started using less plastic, turning off lights and devices when not in use, and being more conscious about wasting water and resources.

What surprised me the most was how much of a difference small changes can make when many people take them together. I now feel more aware, more responsible, and more motivated to be part of the solution. I will do my part in creating a cleaner, greener future.

We can prevent climate change with personal actions.





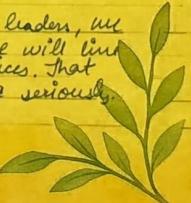
Conclusion

Climate change is one of the most urgent and far-reaching challenges the world is facing today. It affects every continent, every community, and every individual in some way - whether through extreme weather, rising sea levels, health risks or threats to food and water security. It is not just an environmental issue, but also a social, economic, and humanitarian crisis.

Through this project, I have gained a deeper understanding of what causes climate change, how it is already impacting lives around the world, and what solutions are available for us to fight back. From switching to renewable energy and protecting forests to adopting eco-friendly habits in our daily lives, I have learned that solutions do exist - but they require urgent action.

The role of governments in making policies, businesses in making responsible choices and individuals in adopting greener practices is extremely important. If all of us, across different parts of society, act together, even small steps can add up to big changes. We can reduce the damage, slow down global warming, and protect the planet for future generations.

As young citizens and future leaders, we have a special responsibility. We will live the consequences of today's choices. That is why we must take this issue seriously. We must care.





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