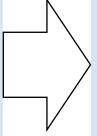
Enhancing Science Education through GLOBE Program







Why Integrate GLOBE Protocols into the curriculum?



- Promotes environmental literacy
- Provides educational resources and curriculum
- Provides professional development for educators
- Promotes global collaboration and community building
- Enhances the use of technology and data visualization
- It links science with the environment
- Promotes long-term, student-driven projects

i) Environmental Literacy

- GLOBE engages the students and the general public in hands-on science activities.
- Students collect data on various environmental parameters (such as temperature, precipitation, soil moisture, and water quality) and contribute their findings to a global database.



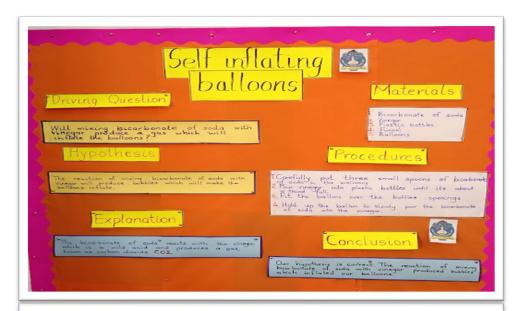






ii) Educational Resources

- The provision of a wide range of <u>educational resources</u> including *lesson* plans, training modules, and interactive activities that align with our school curriculum has been an asset to our teachers.
- Some of the topics covered in the GLOBE resources:
- a) Weather and Climate
- b) Surface Temperature
- c) Water Quality





iii) Professional Development for Educators

- The program offers professional development for teachers including workshops and webinars.
- This helps to enhance teachers' knowledge and skills in environmental science and empowers them to effectively instill knowledge.









iv) Global collaboration and Support from **Professionals**

- The program offers a platform for students, teachers, and Scientists all around the world.
- Collaborations in research and training with professionals have enabled students to share data, exchange ideas, and gain diverse perspectives on environmental issues.









v) Technology and data visualization

The use of technology to enhance learning and data sharing where learners can enter collected data into the GLOBE database via the Observer app has helped in the development of critical thinking and data literacy skills among our students.





vi) Linking science with environmental stewardship

The connection

between science and environmental stewardship encourages participants to make informed decisions on the protection and improvement of the environment.









GLOBE Student Experience

I have been an active member of the GLOBE Club at my school for about 4 years straight and have taken part in the annual IVSS multiple times. By participating in GLOBE activities I have learned how to tackle a problem by testing different approaches. I have also gained technical skills like carrying out an experiment using the scientific process and writing a research report and sharing our findings using different methods and for different audiences such as using scientific posters and video documentaries. I also honed important skills such as being able to work in a team. During this time, I discovered that it is possible for students like me to help contribute towards addressing global issues like climate change and to make a difference. I now enjoy mentoring the new students of GLOBE so that they can also benefit from these experiences.





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