



GLOBE and UNESCO



The GLOBE Program

The Global Learning and Observations to Benefit the Environment (GLOBE) Program is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and environment. More than 245 million measurements have been entered into the GLOBE database available worldwide.



UNESCO Education for Sustainable Development Principles

Education for Sustainable Development (ESD) allows every human being to acquire the knowledge, skills, attitudes and values necessary to shape a sustainable future.

Biosphere

GLOBE materials allow students to work actively as scientists and to gather data on the biota in their region. Through the Biosphere investigation and scientific protocols students gain hands-on experience quantifying biodiversity.



Biodiversity

The effect of human activities has greatly reduced biodiversity in ecosystems around the world. It is important to refocus education programs so that they enable educators and learners to protect biodiversity.

Extreme Weather Events

Through the the GOES-R Mission, GLOBE students are able to take and share data on extreme events that occur in their locality. Their data are then combined with satellite observations to develop a more comprehensive scientific understanding of extreme weather events, as well as students' awareness of their means, processes and predictability.



Disaster Risk Reduction

Education for Disaster Risk Reduction (DRR) promotes critical thinking and problem-solving as well as social and life skills that are essential to the empowerment of groups threatened or affected by disasters.

GLOBE Diversity and Reach

Since its inception, The GLOBE Program has been implemented in over 40,000 schools and more than 125 countries. Additionally, GLOBE materials and resources have been translated in over 15 languages.



Cultural Diversity

Building an effective global approach to sustainable development and ESD should address respecting, protecting and maintaining the cultural diversity of the world now and in the future.

Sustainability Awareness

Through GLOBE, students gain an understanding of the Earth system. They develop an awareness of resource distribution and sustainable practices that meet the needs of the present without compromising the well-being of future generations.



Sustainable Lifestyles

Our daily choices as consumers affect the lives of workers in distant places and the way people live. Sustainable consumption means buying goods and services that do not harm the environment, society, and the economy.

Hydrosphere

Utilizing the Hydrosphere investigation, students are able to act as scientists exploring water quality with various science protocols. In turn, students gain an understanding of the water cycle and an awareness of water as a resource.



Water

ESD ensures that learners receive an education in water related issues to develop relevant knowledge, skills, values and behaviors in order to preserve this important resource.

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