

## SCIENCE DRIVEN BY THE SUSTAINABLE DEVELOPMENT GOALS

### SUSTAINABLE DEVELOPMENT GOALS



The **Smithsonian Science for Global Goals** project provides freely available online community research guides for youth ages 8-17 developed by the Smithsonian Science Education Center in collaboration with the InterAcademy Partnership. These research guides use the **United Nations Sustainable Development Goals** (SDGs) as a framework to focus on sustainable actions that are student-defined and implemented at a local level.

#### CONTACT US:

Advancement & Partnerships  
Inola Walston  
walstoni@si.edu  
202.633.2911  
[www.ssec.si.edu/global-goals](http://www.ssec.si.edu/global-goals)

## WHAT IS OUR APPROACH?

Smithsonian Science for Global Goals brings together inquiry-based science education and civic engagement. Students ages 8-17 engage firsthand with issues of critical importance, such as climate change, the health of the world's oceans, and clean energy, while examining each issue from multiple perspectives: social, ethical, economic, and environmental. Educating youth about complex socio-scientific issues will help to mobilize young people, their teachers and parents to take action against societal and health problems that can adversely affect their lives.

## WHAT WILL STUDENTS LEARN?

- Critical reasoning
- Systemic understanding of complex issues
- Science literacy & sustainability mindsets
- How to approach complex issues through multiple perspectives (social, ethical, economic, and environmental)
- How to find common ground, build consensus, and plan and carry out local actions for Global Goals.

## TOPICS

- **Mosquito!** How can we ensure health for all from mosquito-borne diseases? (Available now!)
- **Food!** How do we ensure good nutrition for all? (Available now!)
- **Sustainable Cities!** How can we create healthier, happier cities? (In development)
- **Biodiversity!** How do we balance protecting Earth's diverse resources with human needs? (In development)
- **Water!** How do we balance fair water use for all?
- **Energy!** How do we balance access to energy and environmental concerns?
- **Weather and People!** How do we balance economics and preparation?
- **Biotechnology and Humans!** How do we balance technology, actions, and ethics?
- **Pandemic!** How do we prepare for a pandemic?
- **Development and the Oceans!** How do we balance today's needs with tomorrow's goals?
- **Agriculture!** How do we balance production, economics, and the environment?
- **And more!** Visit: [www.ssec.si.edu/global-goals](http://www.ssec.si.edu/global-goals)

## PARTNERS



## GLOBAL GOALS ACTION PROGRESSION

### OUR PHILOSOPHY

Our vision is for students to form a habit of taking local action on global issues, and based in scientific understanding.

Smithsonian Science for Global Goals combines key pieces of science and social studies education practices. The result is a progression that takes students from understanding their own identity and the identity of their community, to questioning and investigating, to engaging in critical reasoning and systemic thinking. Students then take their newfound scientific knowledge to engage in social action.

Critical Reasoning and Systemic Understanding are the keystones. Armed with their new scientific understanding, this is where students examine their own values and perspectives, and reflect on how their perspective changes as they learn more about the world around them.

Smithsonian Science for Global Goals helps students develop sustainability mindsets and become scientifically literate citizens.

### AVAILABLE NOW

#### **MOSQUITO!**

How can we ensure health for all from mosquito-borne diseases? Available in English and Spanish.

Access the module now at:  
[www.ssec.si.edu/mosquito](http://www.ssec.si.edu/mosquito)

#### **FOOD!**

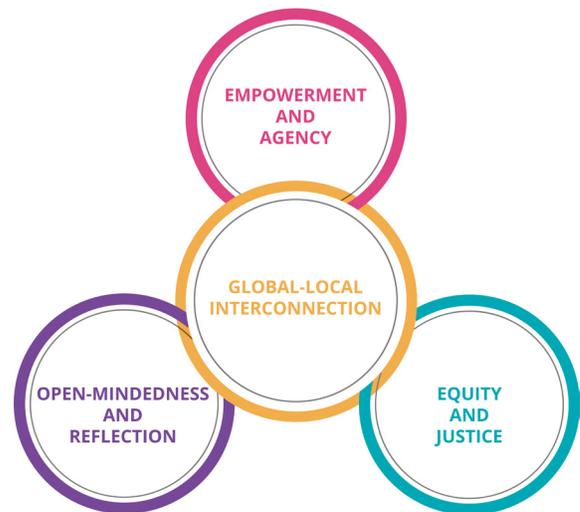
How do we ensure good nutrition for all? Available in English.

Access the module now at:  
[www.ssec.si.edu/food](http://www.ssec.si.edu/food)



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### SUSTAINABILITY MINDSETS



### FUNDERS

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