

Science and Global Issues: Biology

REDESIGNED FOR THE NGSS

Science and Global Issues: Biology uses an issue-oriented approach to connect biology to students' lives and communities. Activities and investigations require students to consider, apply scientific evidence, and analyze the trade-offs involved in personal and societal decisions.



SUSTAINABILITY

Unit issue: The ways in which humans interact with the environment can cause dramatic changes over time.

Overarching question: How do humans affect the environment over time?



ECOLOGY

Unit issue: People rely on natural resources, including fish, for many reasons, including food, yet many fisheries are no longer sustainable.

Overarching question: How can we use our knowledge about ecology to make informed decisions about managing fisheries to be more sustainable?

Assessed Performance Expectations: HS-LS2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7



CELLS

Unit issue: Human health is increasingly subject to emerging global patterns, including extreme heat events, changes in the frequency of diseases, and climate effects on the food supply.

Overarching question: What are the challenges to human health in a changing world?

Assessed Performance Expectations: HS-LS1-1, 1-2, 1-3, 1-5, 1-6, 1-7, 2-3, 2-4, 2-7



GENETICS

Unit issue: People rely on genetically engineered crop plants to maintain a global food supply, but the use of this technology can impact sustainability.

Overarching question: How do genetically engineered crops affect the sustainability of food production?

Assessed Performance Expectations: HS-LS1-1, 1-4, 3-1, 3-2, 3-3



EVOLUTION

Unit issue: Globally, populations of organisms are changing as they respond or adapt to changing environmental conditions, some of which are due to human activity.

Overarching question: How are humans changing the environment, and thereby affecting the evolution of species?

Assessed Performance Expectations: HS-LS2-7, 2-8, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6



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