



Beyond the Dead Zone Pt. 2

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Duration
9:22 (cc)

STEAM Curriculum Lesson Extension:

Reef-Life, 8th Grade

Goal

Students will be introduced to how the health of a reef off the coast of Florida is being monitored in order to find ways to protect it.

Overview

Phillippe Cousteau and US Geological Survey Marine Biologist Ilsa Kuffner dive below the surface to explore the invisible threats to corals that may impact all marine life in these waters.

Connections to EarthX STEAM Curriculum Lesson: *Reef-Life*

Creating artificial reefs helps restore an ocean's ecosystem. Through the creation of an artificial reef, research as to the health conditions of the area can be monitored to better understand how to keep reefs thriving.

Guiding Questions

- If coral had a Twitter account, what hashtag would they use and why?
- How do the marine biologists monitor the health of their cinder block coral? How can they use this data?
- What can you do to help maintain the health of coral reefs and other marine life?

Vocabulary

- Coral bleaching
- Salinity
- Runoff
- Water quality
- Symbiotic
- Calcification
- Calcium carbonate
- Ions
- Acidic
- CO₂
- pH
- Ocean acidification
- Mitigate

Standards

Next Generation Science

- MS-LS2-4
- MS-ESS3-4
- HS-LS2-6

TEKS Science Objectives

- 5.b.9c
- 7.b.13a
- 7.b.13b
- 8.b.11c