Making It Local for Your Students

International Society for Technology in Education: 5 Resources to Connect Your Students to Real Scientists

https://www.iste.org/explore/articleDetail?articleid=670&category=In-the-classroom&article
This article provides links to 5 nationally relevant science resources. These organizations offer the opportunity to connect with real scientists virtually who research a broad range of topics.

National Center for Science Education: Scientist in the Classroom

https://ncse.com/scientistinclassroom
This organizations helps to connect teachers with early career scientists who study a variety of environmental issues. Teachers are partnered with a local scientist to teach current and engaging scientific content.

National Ocean Service

https://oceanservice.noaa.gov
This resource allows you to learn about what large bodies of water near you might be affected by algal blooms or other water quality issues.

Skype a Scientist

https://www.skypeascientist.com/
This site allows you to connect to a real scientist. Your students can engage in 30-60 minute Skype sessions to learn more about what it's like to be a scientist. By sharing your class' current content, the site will connect you with a researcher that supports your students' current interests and inquires.

The Water Education Foundation

www.watereducation.org
This California-based organization supplies resources on bodies of water across the United States. Their website explores how changes in water quality occur.

Online Resources

www.lakeeriewaterkeeper.org

This site provides information about the many watersheds that feed into Lake Erie, as well an explicit lists of causes for algal blooms.

NOAA Lake Erie Monitoring through Satellite Images

https://coastwatch.glerl.noaa.gov/modis/modis.php?region=e

The National Oceanic and Atmospheric Administration provides daily satellite images of Lake Erie through this site. They are used for minoring blooms and changes in the lake.

EPA: Nutrient Pollution and Harmful Algal Blooms

www.epa.gov/nutrientpollution/harmful-algal-blooms#multimedia

This website provides many pages which discuss the causes and effects of algal blooms, statistics related to nutrient pollution in the United States, and graphics depicting the impact and scope the issue.

Kids Net Encyclopedia

http://encyclopedia.kids.net.au/

Using this resource, students can search challenging terms, such as algal bloom, fertilizer, or phosphorus, to gain a deeper understanding of how algal blooms work.

Relevant Literature

Lake Erie: A True Book

By: Ann Armbruster

This informational picture book addresses the social and economical significance of Lake Erie, both historically and in present day.

Fact Finders: Lake Erie

By: Anne Ylvisaker & Rosanne Fortner

This informational text explores Lake Erie's history, industries, landmarks, and evolution over time.

Gardener of the Sea: A story about Nida Calumpong

By: Didith T. Rodrigo

Illustrated By: Corrine Golez

This picture book tells the true story of Dr. Nida Calumpong. She overcame her childhood fear of water to become a nationally acclaimed marine biologist. She now studies aquatic plants and animals through deep sea dives.

What Happened to Lake Erie?
By: Audrey Quinn
Illustrated By: Jackie Roche
This nonfiction comic explains how agricultural practices have contributed to algal blooms in Lake Erie over the years and what impact these blooms have on the economy of this region.

Poisoned Rivers and Lakes
By: Ellen Lawrence
This informational text examines the many factors that contribute to pollution in bodies of freshwater; littering, chemical dumping, farming methods, and more.

Observational Assessment Checklist				
Students will be able to… Student Names	make observations about the water they explore in relation to water quality and algae growth	make inferences about the water they explore in relation to water quality and algae growth.	communicate at least one of the causes of pollution in Lake Erie (verbally or in writing).	give an example of what they can do to improve water quality in our area.
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