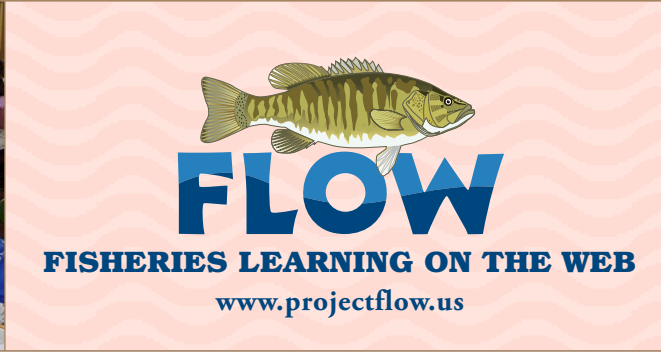


Fisheries Learning On The Web

CONNECTING WITH EDUCATORS



Fisheries Learning on the Web is a comprehensive curriculum about the Great Lakes ecosystem. Lessons are geared toward educators who teach upper elementary and middle school students. Each lesson is aligned with national and state curriculum standards for science and social studies and features a hands-on classroom activity.

Lesson materials include:

- Fun and engaging downloadable materials, such as an invasive species board game, a dichotomous key and fish cards.
- Specific educational objectives, based on standards and benchmarks.
- Assessment tools, based on learning objectives.

Fisheries Learning on the Web (FLOW) focuses on the Great Lakes fisheries, food web, invasive species and water quality. Within FLOW, you will find activities that are “plug-n-play.” Each section features five lessons that introduce overall concepts, teach via activities and then follow up with guided lessons and discussion. The following units are included:

Food Web

- Introduces aquatic food chains and food webs.
- Demonstrates through classroom activities that all living organisms in an ecosystem are connected and that this structure is sensitive to change through classroom activities.
- Lessons cover non-indigenous species and why some are considered invasive.

Water

- Introduces watersheds and wetlands.
- First two activities allow students to predict, observe and explain the movement of water.
- Lessons 3 and 4 discuss freshwater and the importance of water quality.
- Final lesson asks students to make their own decisions concerning water quality, land use and the environment.

Fish

- Introduces the number and variety of Great Lakes fish.
- Students use a simple key to identify several common fish families.
- Lessons cover the importance of healthy fish habitat, the stages in a fish's life cycle and techniques for tracking and monitoring Great Lakes fish populations.
- Final lesson highlights scientific careers.

Commitment to Education

Michigan Sea Grant education specialists ensure that all environmental educational materials are tested in the classroom and address key environmental, economic and social issues, such as the importance of water quality to humans, animals and plants.

Educational materials like FLOW are designed to support educators in Michigan and throughout the country. Lesson content is based on objectives that are aligned to national standards and benchmarks and can easily be incorporated into existing science curricula. Assessment tools, including sample rubrics, are also provided.

Also see: *Teaching with Great Lakes Data*, www.greatlakeslessons.com

FLOW is part of Michigan Sea Grant's ongoing effort to provide K-12 teachers and non-formal educators with high-quality curriculum materials and interactive educational activities. Michigan Sea Grant originally developed the curriculum with support from the Great Lakes Fishery Trust in 2005 and has provided updated lessons.



Michigan Sea Grant enhances the sustainability of Michigan's coastal communities, residents, and businesses through research, outreach and education.

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