Activities by Category

This collection of 41 activities covers a broad range of grade levels (4-10) and instructional modes. Activities are grouped to help you find appropriate activities for any situation at a glance. They are organized by:

- Grade Level
- Instructional Mode
- “Big Idea”

Standard Tables

Greatest of the Great Lakes activities have been aligned to education standards by educators from eight Great Lakes states, as follows:

- National Science Standards
- Illinois Science Standards
- Indiana Science Standards
- Michigan Science Standards
- Minnesota Science Standards
- New York Science Standards
- Ohio Science Standards
- Pennsylvania Science Standards
- Wisconsin Science Standards
- Ocean Literacy Principles
Activities

How Well Do You Know the Great Lakes?

This collection includes 41 classroom activities grouped into seven broad themes:

- Great Lakes Overview
- Life in the Water
- Habitats
- Climate & Weather
- Hydrology
- Coastal Processes
- Issues

The exemplary activities in Greatest of the Great Lakes were selected from a wide array of curriculum sources. They are based on a set of criteria to best meet teachers’ needs.

Most of the activities stand alone; however, several activities have been grouped into sets that work best when conducted sequentially.

Appendices

Significant Others

Additional Recommended Great Lakes Activities in Brief

<table>
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<tr>
<th>Category</th>
<th>Activity</th>
<th>Grade/Subject</th>
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<td>3-4 S</td>
<td>Zeno Mussel Manca</td>
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<td></td>
<td>Zeno to Zeno</td>
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<td>Food Chains</td>
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<td>What Fraction Affect the Size of a Natural Population?</td>
<td>6-12 S</td>
<td>ES-EAGLS Life in the Great Lakes, pp 75-86</td>
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<td>Something’s Fairy</td>
<td>2-3 S, A</td>
<td>Field Trip to the Area</td>
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<td>Family Reunion</td>
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<tr>
<td></td>
<td>Where Have All the Lake Trout Gone?</td>
<td>4-12 S, M</td>
<td>The Life of the Lake</td>
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</tbody>
</table>

Habitat

- Fish Habitat
  - 4-8 S
  - Project FLOW

Climate & Weather

- Studying Thermal Stratification
  - 7-12 S
  - Water on the Web

Hydrology

- Aerial Photographs
  - 6-12 S
  - Watered Science for Educators

- What Makes Water Hazy?
  - 4-8 S
  - Project FLOW

Coastal Processes

- What Causes the Shoreline to Erode?
  - 4-8 S
  - ES-EAGLS Lead & Water Interactions

Issues

- Great Lakes Great
  - 5-8 S, LA
  - ESCAPE

- All Charged Up
  - 3-8 S, M
  - Zeno Mussel Manca

- What Do Scientists Know About Invasive Species and the Effects that Global Climate Change Will Have on Them?
  - 4-6 S
  - GLOBECES

- Invasive Species of the Great Lakes
  - 4-8 S
  - ESCAPE

- We’ve Gotta Save Us
  - 4-7 S, A
  - ESCAPE

Subject Key: S = Science, SS = Social Science, M = Math, A = Art, LA = Language Arts

“Significant Others” (Appendix A) provides you with additional activities that you may wish to investigate for further use in your classroom. They are organized by topic category, grade level, subject, and source. In addition, brief synopses are included to help in your selection process.

“Sources for the Greatest of the Great Lakes Activities” (Appendix B) describes the source materials for all activities in Greatest of the Great Lakes and provides information on how you can obtain them.