OUR MUSEUM EXHIBITS
Our 11,000 square-foot exhibit space was designed to educate and entertain, including over 300 artifacts, powerful audiovisual displays and 40 hands-on interactive exhibits. Through these exhibits and through supplemental programming, students will learn about the important role of the Great Lakes in our regional, national and global history. Looking through the lens of Great Lakes history, students will also explore the ways that math, science and technological innovation have shaped and been shaped by the Great Lakes. Each field trip includes supplemental programming to ensure that students connect their museum experience back to what they are learning in the classroom.

OUR MUSEUM SHIPS
AVAILABLE MAY TO OCTOBER

COL. JAMES M. SCHOONMAKER MUSEUM SHIP
Students can step back in time aboard our meticulously restored lake freighter. Built in 1911, the Col. James M. Schoonmaker was ground breaking, both in size and in technological innovation. Through a guided tour, students will learn first-hand about the history of Great Lakes transportation, the math and science behind maritime technology and about the lives of people who worked on the lakes.

MUSEUM TUG OHIO
New this year, the Museum Tug Ohio joins the Col. James M. Schoonmaker Museum Ship in telling important stories about our regional history. Built in 1903 as a fire boat for the Milwaukee Fire Department, the Ohio became a tug boat in the 1950s and was touted as a technological marvel. Through a guided tour, students will explore an important part of Great Lakes history and learn the science behind how a boat the size of the Ohio could tow something as big as a lake freighter.

FIELD TRIP RATES
Museum Visit: $7 per student and chaperone
Museum Visit with Guided Tours of the Col. James M. Schoonmaker Museum Ship and Museum Tug Ohio:
(Available May 1 through October 31)
$13 per student and chaperone

We require an adult to child ratio of 1:7.
Teachers are always free.

ALL ABOARDS! GRANTS
New for 2019 we are able to offer free field trip admission and outreach programs for 3rd to 6th grade students in Lucas County. Grants for other grade levels and schools will be considered on a case by case basis.

Thank you to our generous sponsor:

BOOK TODAY
Field trips must be booked 30 days in advance.
Contact Education and Visitor Experience Director Ellen Kennedy by email at education@nmgl.org or by phone at 419.214.5000 ext. 206.

LEARN MORE ONLINE AT
NMGL.ORG/KID-ZONE
We can also come to you! Our outreach programs are facilitated by a museum representative, in your classroom.

**KITTY SMOKE**

*Kitty Smoke* was once the most powerful tugboat on the Great Lakes. But after years of hard work she is replaced by newer tugboats and left to rot. Everything changes when a boy named Mark, his grandfather Captain Inch and the captain’s cat Cookie, find *Kitty Smoke* in a shipyard. Can they fix her up and help her become the greatest tugboat on the Great Lakes once again? Introduce your students to the Great Lakes with our new children’s book, *The Adventures of Kitty Smoke and Her Friends*. This program highlights Great Lakes history and early literacy.

**RECOMMENDED FOR PRE-K TO 2ND GRADE**

**FULL STEAM AHEAD!**

These programs illustrate the connections between STEAM education and Great Lakes history, while supporting Ohio Learning Standards. **RECOMMENDED FOR GRADES 3-8**

**Freighter Fun:** Utilizes models of lake freighters to build skills in topics ranging from measurement, scale and functions to geography and science, while exploring both the past and the future of the Great Lakes.

- **Available Lessons:**
  - **Measurement, Speed & Area:** Students will use models of lake freighters to explore the geography of the Great Lakes, calculate distance based on speed and time travelled and determine the area of rectangles based on measurements of the freighter. *(4th grade Learning Standards)*
  - **Measurement, Speed & Volume:** Students will use models of lake freighters to take measurements, convert between units within a system and calculate volume of rectangular prisms. They will also calculate speed based on time and distance. *(5th grade Learning Standards)*
  - **Speed, Ratios & Percentages:** Students will use models of lake freighters to calculate speeds, ratios and percentages. *(7th grade Learning Standards)*
  - **Slope, Motion & Force:** Students will use models of lake freighters to explore topics of motion and force as they relate to speed. They will also graph changes in speed using slope. *(8th grade Learning Standards)*

**Chart It:** Utilizes nautical charts to build skills in topics ranging from geometry to geography and science, all while illuminating the history of the Great Lakes.

- **Available Lessons:**
  - **Directions, Angles & Geography:** Students will use charts of the lakes to discuss earth’s surface and geography. They will then draw line segments between Great Lakes ports and create different types of angles. *(4th grade Learning Standards)*
  - **Latitude, Longitude & Coordinate Planes:** Students will use charts of the lakes, overlaid with a coordinate plane, to plot points and draw intersecting line segments. They will also learn about latitude and longitude. *(5th grade Learning Standards)*
  - **Navigating Coordinates, Angles & Equations:** Students will use charts of the lakes, overlaid with a coordinate plane, to plot points, draw line segments, examine different types of angles and create equations. *(7th grade Learning Standards)*
  - **Slope & Functions:** Students will use charts of the lakes, overlaid with a coordinate plane, to plot points and explore linear functions. *(8th grade Learning Standards)*

**TRAVELING TRUNKS**

We provide the program, you do the rest. You can now rent the materials for our outreach programs and present the program yourself. **Limitations may apply**

For more details and information, visit: NMGL.org/kid-zone