

# Marine Archaeology and Forensics: Solve the Mysteries of the Deep!

This STEM program for Middle and High School students takes place right in your classroom! Science and archeology go hand-in-hand as your students take a step back into local history to explore and analyze artifacts in their attempt to solve the mystery of a Long Island shipwreck.

## The program consists of 2 parts:

- **Marine Archaeology and Forensics, Part 1**

This interactive lecture provides insight about how marine researchers use forensic investigations. Using original artifacts from the wreck, the presentation helps to set the “scene” of a local disaster from many years ago. The students will be guided through the use of forensic techniques and critical thinking to answer the question: “What happened here?” Additional content includes Boyle’s Law, Archimedes’ Principle, dive physiology and working in a hostile environment. Students will then apply their new knowledge to a second unidentified shipwreck.

- **Shipwreck Forensic Lab, Part 2** Using the skills they obtained from the lecture in Part I, students will investigate original artifacts from a local shipwreck site. Students will analyze the artifacts to identify them and determine the clues they left behind to about the ship and the people that were once on board. They will collect data to be used as evidence to draw conclusions about:

- The type of ship and its construction
- Civilian or military? Domestic or foreign?
- Time frame of its sinking and its construction
- What caused the sinking?
- What was life like aboard the ship?

**Time required:** 1 classroom period/session; both Part I & II can be completed as a double lab period

**Cost: Part 1:** \$824 for up to 4 classes per day.

**Part 2** \$724 if scheduled for a separate day as a follow-up to Part 1

**Part 1 & 2:** \$824 for up to 2 classes per day scheduled as a double lab

