



CAPE COD MARITIME MUSEUM

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Pirates & Mooncussers

Lesson Goal:

Mooncussers were pirates on the shores of Cape Cod who fooled the boat captains navigating the waters. They caused many of Cape Cod's shipwrecks by using their knowledge of the shifting sands and mimicking lighthouse communications. How did they gain the knowledge of the sea floor?

Lesson Objectives:

The students will:

- learn some oceanography vocabulary.
- compare current and old nautical charts.
- create their own ocean floor.
- understand how diverse land forms are under water.

Assessment:

The teacher will:

- facilitate discussion for students to share their existing knowledge.
- observe students finding points on their charts.
- observe students' engagement.
- encourage team building skills.
- present, then review, new vocabulary words.
- encourage students to analyze the differences between their bathymetric map before and after water is added.

Frameworks:

- *2-ESS2 Earth's Systems* 2-ESS2-2; 2-ESS2-4(MA)
- *3-ESS3 Earth and Human Activity* 3-ESS3-1
- *4-ESS1 Earth's Place in the Universe* 4-ESS1-1
- *4-ESS2 Earth's Systems* 4-ESS2-1; 4-ESS2-2
- *3-5-ETS2 Technological Systems* 3-5-ETS2-1(MA); 3-5-ETS2-2(MA)
- *MS-ESS2 Earth's Systems* MS-ESS2-3
- *MS-ETS1 Engineering Design* MS-ETS1-1; MS-ETS1-5(MA)
- *MS-ESS2 Earth's Systems* MS-ESS2-4
- *MS-LS2 Ecosystems: Interactions, Energy, and Dynamics* MS-LS2-4; MS-LS2-5
- *MS-ESS2 Earth's Systems* MS-ESS2-6

For More Information About this Class:

This class can be designed by the Museum staff for any grade level from k-12, and can be taught at the Museum or in the school classroom. To see how it can meet your educational needs, and for an estimate of costs per students, please contact CCMM's Education Coordinator and STEM teacher, Deirdre Detjens, at 508-775-1723 or ddetjens@capecodmaritimemuseum.org

CCMM Education Mission:

Cape Cod Maritime Museum provides students and educators of all ages, real-world, interactive, inquiry-based, learning opportunities utilizing Cape Cod centric pedagogy to inspire an enduring connection with Cape Cod maritime culture. With a comprehensive suite of educational programs, our science, technology, engineering, art and math topics drawn from our own coastal marine environment enabling students to embrace new knowledge and skills in a way that is relevant to Cape Cod and our local culture. All classes are based in an appreciation and respect for Cape Cod's maritime past, present and future.